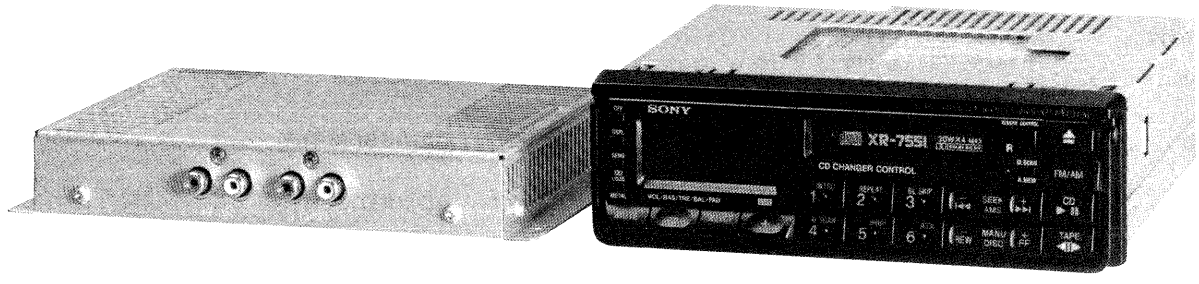
XR-7551

SERVICE MANUAL

AEP Model



Model Name Using Similar Mechanism	XR-7500
Tape Transport Mechanism Type	MG-55E-31

SPECIFICATIONS

Tuner section

FM

Tuning range 87.5 – 108 MHz
Intermediate frequency 10.7 MHz
Antenna terminal External antenna connector
Usable sensitivity 12 dBf (75 ohms)
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz 0.5% (stereo), 0.3% (mono)
Separation 35 dB at 1 kHz
Frequency response 30 – 15,000 Hz
Capture ratio 2 dB

MW/LW

Tuning range MW: 531 – 1,602 kHz
LW: 153 – 281 kHz
Intermediate frequency 450 kHz
Antenna terminal External antenna connector
Sensitivity 35μV

Cassette player section

Tape track 4-track 2-channel stereo
Frequency response 30 – 20,000 Hz
Signal-to-noise ratio

Cassette type	Dolby B	Dolby C	Dolby off
TYPE II, IV	66 dB	76 dB	58 dB
TYPE I	63 dB	73 dB	55 dB

Wow and flutter 0.09% (WRMS)

Power amplifier section (hide-away amplifier)

Outputs Speaker outputs (sure seal connectors)
Inputs Line inputs (photo jacks)
Speaker impedance 2 – 8 ohms
Maximum power output 35 watts per channel at 4 ohms (4 channels driven)

General

Output lead Power antenna relay control lead
Power amplifier control lead
Tone controls Bass ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
Loudness +10 dB at 100 Hz
+6 dB at 10 kHz
Power requirements 12 V DC car battery (negative ground)

– Continued on next page –

FM/MW/LW CASSETTE CAR STEREO

SONY®

Dimensions	Main unit (without bracket): Approx. 178 × 50 × 153 mm (w/h/d) not incl. projecting parts and controls
	Hide-away amplifier: Approx. 178 × 30 × 135 mm (w/h/d) not incl. projecting parts and controls
Mounting dimensions (main unit)	Approx. 182 × 53 × 145 mm (w/h/d) not incl. projecting parts and controls
Weight	Main unit: Approx. 1.9 kg
	Hide-away amplifier: Approx. 0.8 kg
Accessories supplied	Remote controller (1)
	Connecting cord (2)
	Mounting hardware (1 set)
	R03 (size AAA) battery (2)

Design and specifications subject to change without notice.

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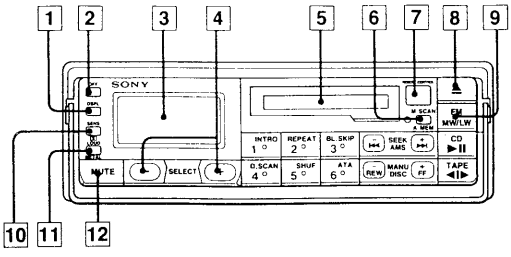
SECTION 1
GENERAL

Location and Function of Controls



1 **DSPL (display) button**

2 **OFF (power off) button**

3 **Display window**

4 **(volume/tone/balance/fader control) button**
(−)(+) button normally functions as the volume control. Adjust the level within three seconds after selecting the desired control mode. Otherwise, the mode goes back to the volume control mode.

5 **Cassette insertion door**

6 **M.SCAN (memory scan) /A.MEM (automatic memory) button**

7 **REMOTE CONTROL sensor**

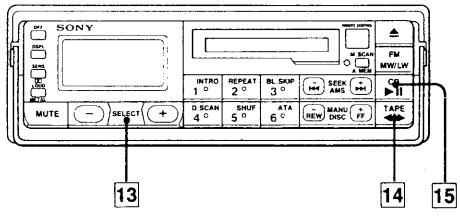
8 **⏏ (eject) button**

9 **FM/MW/LW (radio on/band select) button**

10 **SENS (sensitivity)/ □□ button**

11 **LOUD (loudness)/METAL (metal/CrO_2) button**
Press to reinforce bass and treble especially when listening at low volume. To disengage the button, press it again. Press for more than two seconds to listen to the CrO_2 (TYPE II) or metal (TYPE IV) tapes.

12 **MUTE button**
Press to momentaly mute the sound. Press again to restore the same level as before.



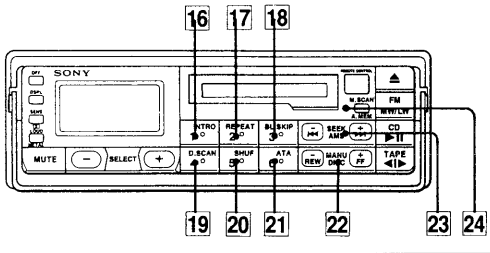
13 **SELECT (control mode select) button**
Press to select the desired mode, BAS (bass), TRE (treble), BAL (balance), FAD (fader), or VOL (volume).

Display window	Control mode	Press (−)	Press (+)
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speaker volume	To decrease the left-speaker volume
FAD	Fader control	To decrease the rear-speaker volume	To decrease the front-speaker volume
VOL	Volume control	For less volume	For more volume

14 **TAPE ◀I▶ (playback/transport direction change) button**

15 **CD ▶II (disc play/pause) button**

Location and Function of Controls



	During tape playback	During disc play	During radio reception
16	INTRO button		Preset number buttons
17	REPEAT button		
18	BL. SKIP (blank skip) button	—	
19	—	D.SCAN (disc scan) button	
20	—	SHUF (shuffle) button	
21	ATA (automatic tuner activation) button		
22	FF/REW* (fast forward/rewind) button	DISC (disc change/manual search) button	MANU (manual tuning) button
23	AMS** button		SEEK (automatic tuning) button

24 **Reset button**
Press this button when you use this unit for the first time and when you have changed the car battery, or when other buttons do not function. The reset button is effective only when the unit is mounted in the bracket.

* Pat 3,758,049 under license of Staar S.A.
** Automatic Music Sensor

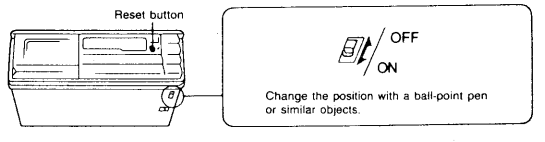
Note: Mute function, intro-play, repeat play, disc scan, and shuffle play (1 and 2) will be canceled when you press the OFF button or when you keep the ignition key set to the off position for more than eight seconds. The blank skip function and the automatic tuner activation will be maintained until you press each button again.

To change illumination colors
Press 1 while pressing the SELECT. Press these buttons again to restore the same color as before.

To mute a beep sound
Press 6 while pressing the SELECT. To obtain the beep sound again, press these buttons again.

Notes on the Power Select Switch

You can choose illumination mode by changing the power select switch located on the bottom.



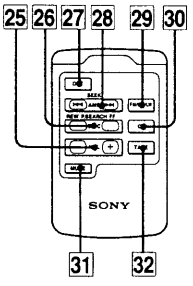
When you set the ignition key to the accessory position

Power select switch	ON	OFF
Illuminate where?	OFF, TAPE, FM/MW/LW, CD, ⏏ buttons and the cassette insertion door	No illumination

- When you activate the unit, all parts of the panel illuminate, regardless of the position of the switch.
- If your car has no accessory position, we recommend you to set the switch to the OFF position.
- Be sure to press the reset button after changing the position of the switch.

Location and Function of Controls

Remote controller



The controls which have original functions

25 ⊖ VOL ⊕ (volume +/−) button

You cannot control bass, treble, balance and fader with the remote controller.

	During tape operation	During CD operation	During radio operation
26	FF/REW (fast forward/ rewind) button	DISC (disc change) button	P.SEARCH (preset search) button*

* You cannot receive stations manually with the remote controller

The controls which have the same functions as those on the main unit

27 OFF (power off) button

28 AMS (automatic music sensor)/SEEK (automatic tuning) button

29 FM/MW/LW (radio on/band select) button

30 CD (disc play/pause) button

31 MUTE button

32 TAPE (playback/transport direction change) button

When using with the power select switch set to OFF

When no power is being supplied to the main unit, you cannot operate it with the remote controller. Press [SOURCE], [CD] or [TAPE PUSH] (or push in a cassette) to turn on the unit and operate it with the remote controller.

Installation

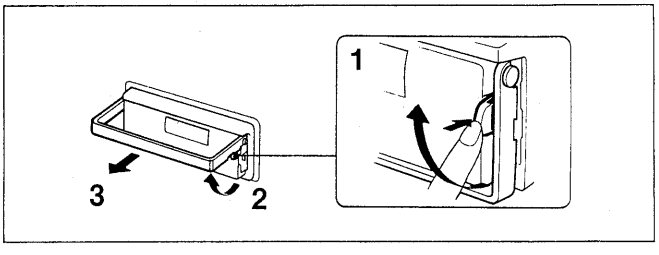
Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Note on the carrying handle
The unit can be installed with or without the carrying handle. When you want to take the unit with you when you leave your car, install the unit with the carrying handle (see instruction 3A). If not, install it without the carrying handle.

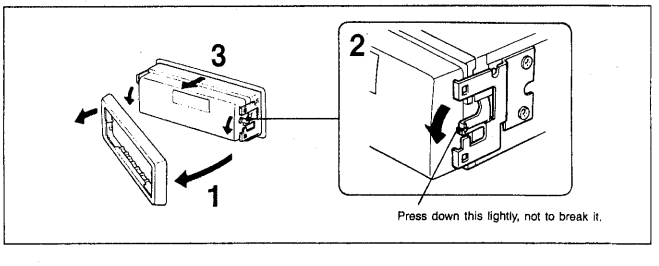
To Remove the Unit

When installed with the carrying handle

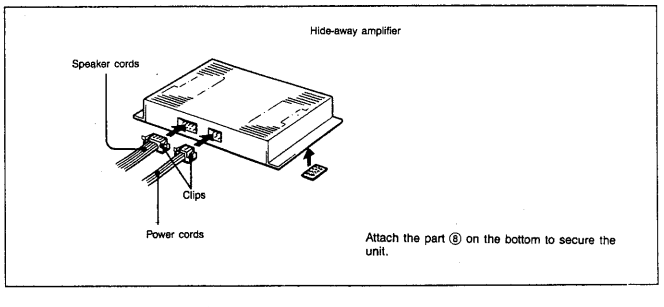


To prevent the unit from being stolen
When you leave your car, remove the unit from the bracket and take it away with you.

When installed without the carrying handle



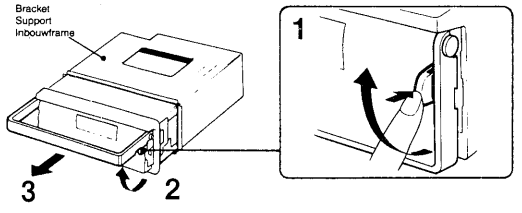
Cord Attachment



To remove, push in the clips and pull it out.

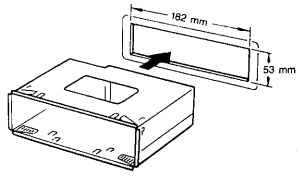
1

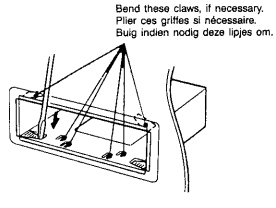
Remove the unit from the bracket.
Sortir l'appareil de son support.
Verwijder het apparaat uit het inbouwframe.



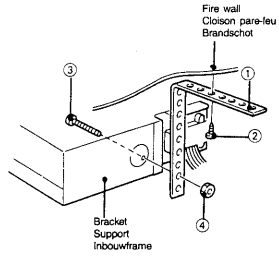
2

Install the bracket in the dashboard.
Installer le support dans le tableau de bord.
Monteer het inbouwframe in het dashboard.

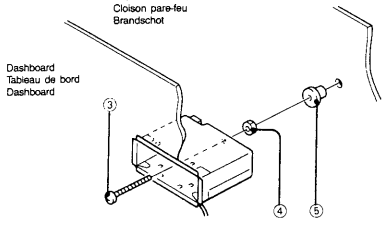




Example 1
Exemple 1
Voorbeeld 1

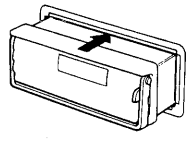


Example 2
Exemple 2
Voorbeeld 2



3A

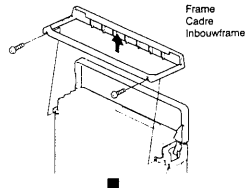
When installing the unit with the carrying handle
Pour installer l'appareil avec la poignée de transport
Wanneer het apparaat met de draagbeugel geïnstalleerd wordt

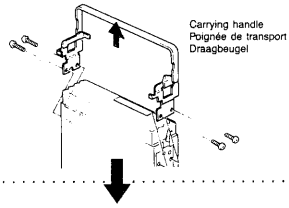


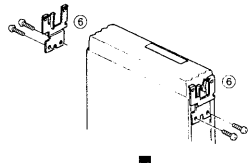
Push in the unit until it is locked firmly.
Enfoncer l'appareil jusqu'à se qu'il se verrouille en place.
Druk het apparaat aan tot het stevig blijft zitten.

3B

When installing the unit without the carrying handle
Pour installer l'appareil sans poignée de transport
Wanneer het apparaat zonder de draagbeugel geïnstalleerd wordt

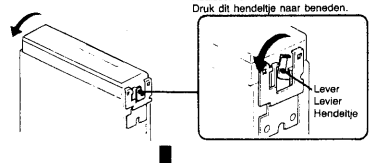


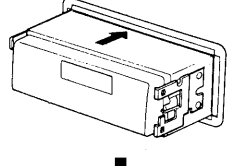


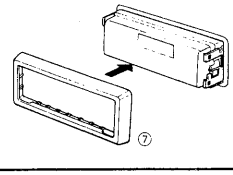


Use the screws removed in the previous step.
Utiliser les vis retirées à l'étape précédente.
Gebruik de in de vorige stap verwijderde schroeven voor het vastzetten van de draagbeugel.

Press down the lever.
Abaisser le levier.
Druk dit hendeltje naar beneden.







Connections Connexions Aansluitingen

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Attention

- Cet appareil est conçu pour fonctionner sur courant continu 12 V à masse négative uniquement.
- Avant de faire les connexions, débrancher la borne de terre de la batterie de voiture pour éviter des court-circuits.
- Ne pas connecter le fil d'entrée d'alimentation **rouge** avant que tous les autres fils soient raccordés. Prendre soin de le raccorder à la borne d'alimentation 12 V positive qui est parcourue par le courant lorsque la clé de contact est mise sur la position accessoire.
- **Amener tous les fils de masse sur un point commun.**

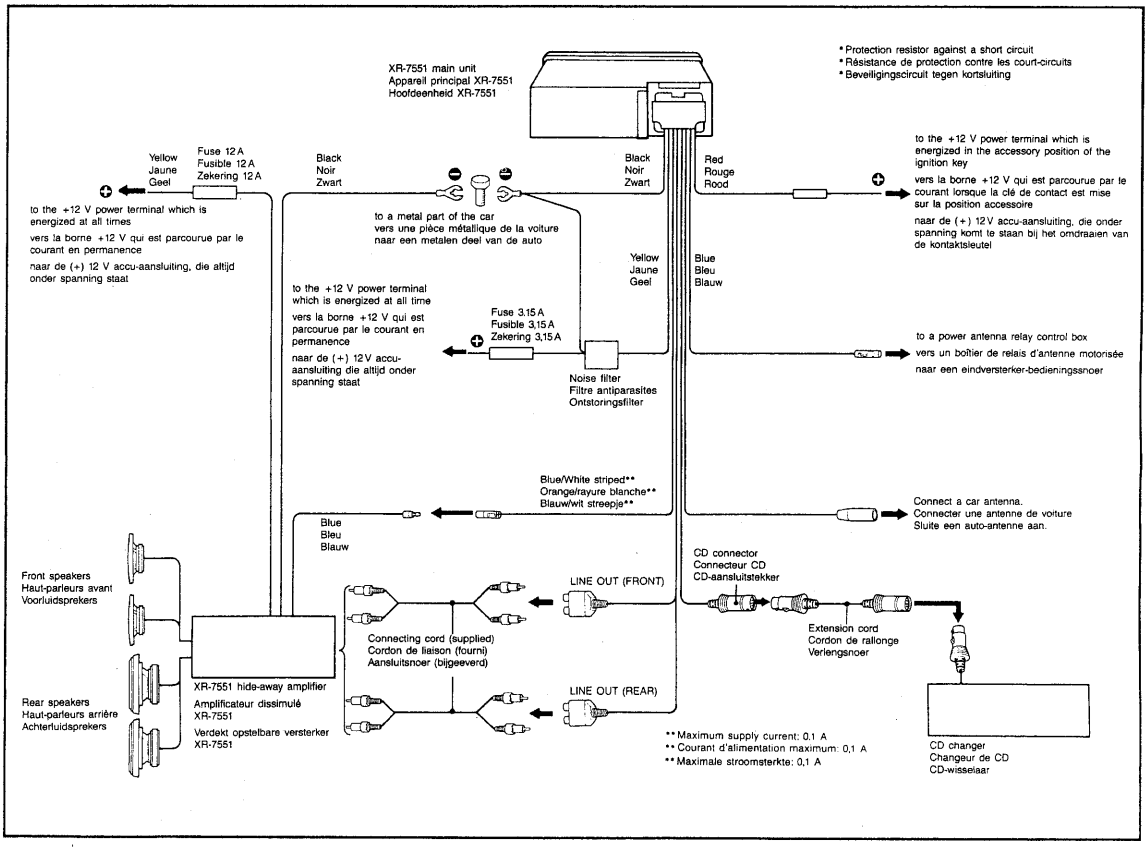
Opgelet

- Dit apparaat mag alleen gebruikt worden op gelijkstroomvoeding van een 12V auto-accu met negatieve aarding.
- Alvorens te beginnen met het maken van aansluitingen, dient de aardklem van de auto-accu te worden losgemaakt. Dit om kortsluiting te voorkomen.
- Sluit de **rode** stroomdraad pas aan nadat alle ervoor dat deze stroomdraad op de positieve 12V accu-aansluiting wordt aangesloten. De draad komt dan onder spanning te staan, wanneer de kontaktsleutel wordt omgedraaid.
- **Sluit alle aarddraden op een gemeenschappelijk aardpunt aan.**

Connection Diagram

Schéma de connexion

Aansluitschema



Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or activate the ATA* function. A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to the power antenna instruction manual.
- When the power antenna control lead or the power amplifier control lead is in contact with a metal part of the car, the unit cannot be turned on because the protection circuit is activated.

* Automatic Tuner Activation

After completing the connections, and mounting the unit into the bracket, press the reset button of this unit. The reset button is effective only when the unit is mounted in the bracket.

Note on the power select switch

You can change illumination mode with the power select switch located on the bottom of the unit. The switch is factory-set to the ON position. **If your car has no accessory position, set the switch to the OFF position** with a pencil or similar objects. After changing position of the power select switch and mounting the unit into the bracket, be sure to press the reset button. For details about the illumination mode, refer to the operating instructions (page).

Remarques sur les fils de contrôle

- Le fil de contrôle de l'antenne motorisée (bleu) fournit un courant continu de +12 V lorsque le tuner est mis sous tension ou la fonction ATA* est activée. Une antenne motorisée sans boîtier de relais ne peut pas être utilisée avec cet appareil. Pour plus de détails sur l'antenne motorisée, se reporter à son mode d'emploi.
- Lorsque le fil de contrôle de l'antenne motorisée ou de l'amplificateur de puissance est en contact avec une partie métalique de la voiture, le circuit de protection est activé et l'appareil ne peut être mis sous tension.

* Activtion du tuner automatique

Une fois les connexions et le montage de l'appareil dans le support terminés, appuyer sur la touche de réinitialisation de l'appareil. La touche de réinitialisation n'a d'effet que lorsque l'appareil est monté dans le support.

Remarque sur le sélecteur d'alimentation

Il est possible de changer de mode d'illumination en se servant du sélecteur d'alimentation situé sous l'appareil. Le sélecteur est préréglé à l'usine sur la position ON. **Si la voiture n'est pas munie de la position accessoire, régler le sélecteur sur la position OFF** à l'aide d'un crayon ou d'un objet similaire. Si la position de ce sélecteur a été modifiée, ne pas oublier d'appuyer sur la touche de réinitialisation après le montage de l'appareil dans le support. Pour plus de détails sur le mode d'illumination, se reporter au mode d'emploi (page).

Betreffende de voedingsaansluitingen

- De (blauw) stroomdraad voor de automatische antenne tuner of de ATA*-funktie inschakelt. Dit apparaat is niet geschikt voor een automatische antenne zonder relaishuis. Zie voor nadere bijzonderheden omtrent de antenne de daarbij geleverde gebruiksaanwijzing.
- Het apparaat kan niet ingeschakeld worden zolang de antenne-stroomdraad of het eindversterkersnoer in aanraking zijn met een metalen deel van de auto, aangezien in dat geval het beveiligingscircuit tegen kortsluiting in werking treedt.

* ATA staat voor Automatische Tuner Aktivering.

Druk op de terugsteltoets (RESET) van dit apparaat nadat alle aansluitingen zijn gemaakt en het apparaat in de inbouwsleede is gemonteerd. Deze toets kan alleen bediend worden, wanneer het apparaat in de inbouwsleede is gemonteerd.

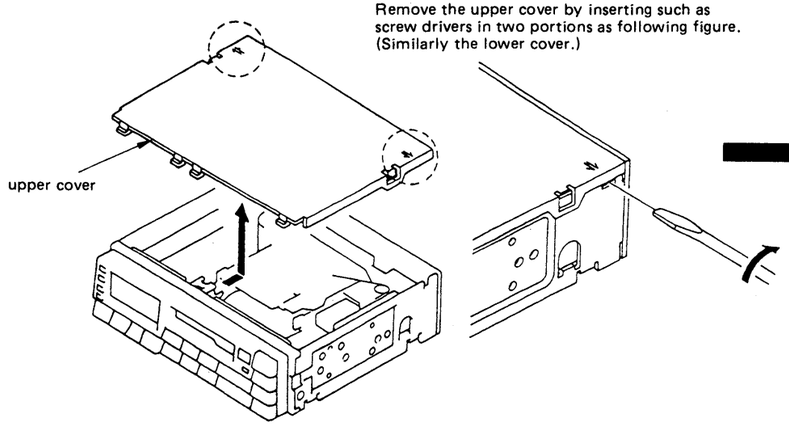
Betreffende de paneelverlichtingsschakelaar

Met de paneelverlichtingsschakelaar aan de onderzijde van het apparaat kunt u de verlichting desgewenst uitschakelen. De schakelaar staat bij aflevering in de "ON" stand, zodat het voorpaneel bij inschakelen automatisch oplicht. **Indien het kontaktslot van uw auto geen "ACC" stand heeft, dient u de paneelverlichtingsschakelaar in de "OFF" stand te zetten,** met een balpen of iets dergelijks. Na aldus omschakelen dient u na montage van het apparaat in de inbouwsleede eerst op de terugsteltoets (RESET) te drukken. Zie voor nadere bijzonderheden betreffende de paneelverlichting de gebruiksaanwijzing van het apparaat (blz.).

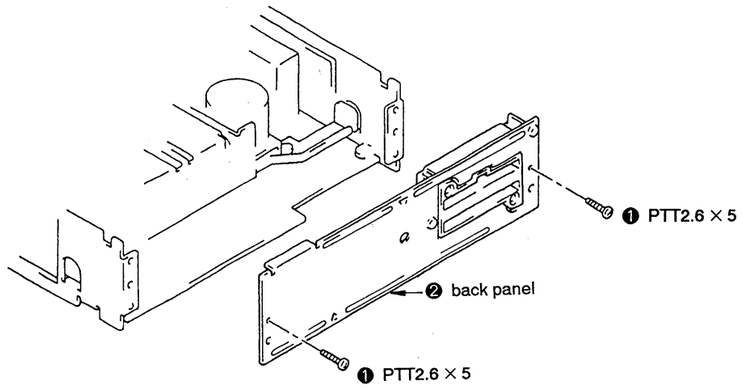
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

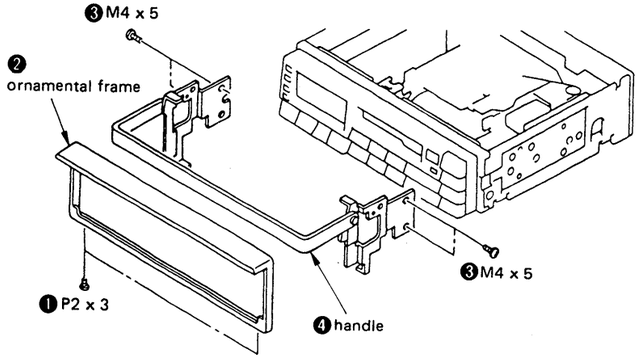
UPPER COVER


Remove the upper cover by inserting such as screw drivers in two portions as following figure. (Similarly the lower cover.)
upper cover

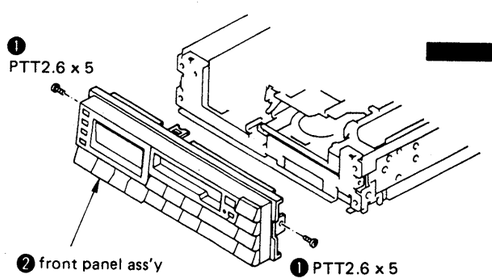
BACK PANEL



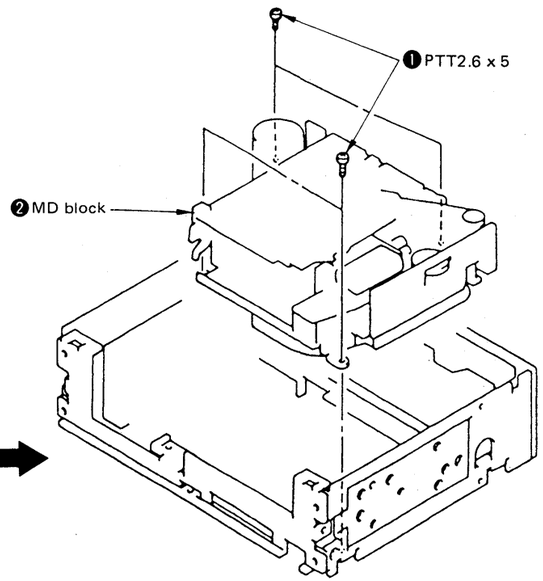
HANDLE



FRONT PANEL ASSEMBLY



MD BLOCK



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

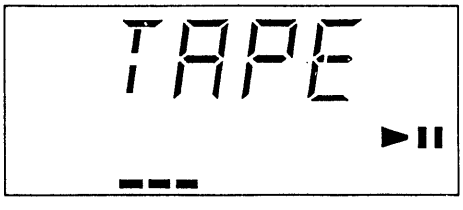
Torque Measurement

Before measuring torque, set to the test mode 2.

Setting Procedure:

1. While pressing "MUTE" (S724) and "2" (S712) buttons simultaneously, press "RESET" (S740) button.
2. Test mode releasing procedure after measuring is pressing "OFF" (S714) or "RESET" (S740) buttons.

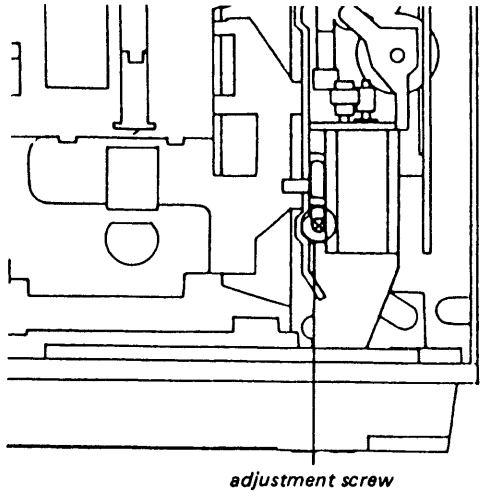
LCD display pattern duning playback on the test mode 2.



Measure the torque at a supply voltage of 14.4 V DC.

	Torque meter	Meter reading
FWD	CQ-102C	25 to 55 g·cm (0.35 to 0.77 oz·inch)
FF, REW	CQ-201B	55 to 150 g·cm (0.77 to 2.1 oz·inch)
Back tension	CQ-102C	1.5 to 4 g·cm or less (0.02 to 0.05 oz·inch or less)

Adjustment Location:

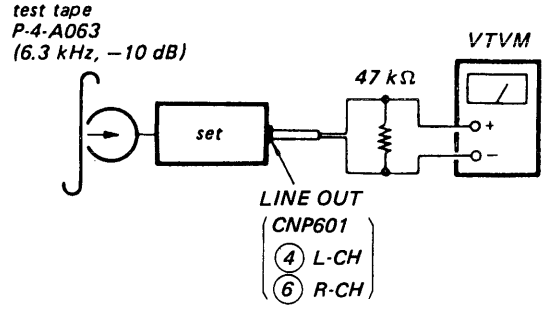


3-2. ELECTRICAL ADJUSTMENTS DECK SECTION

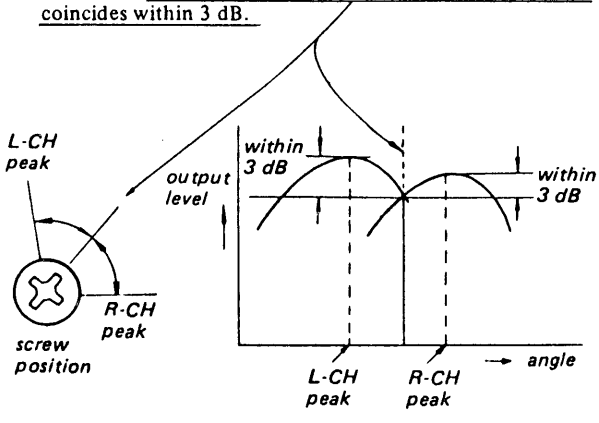
PB Head Vertical Adjustment

Proceudre:

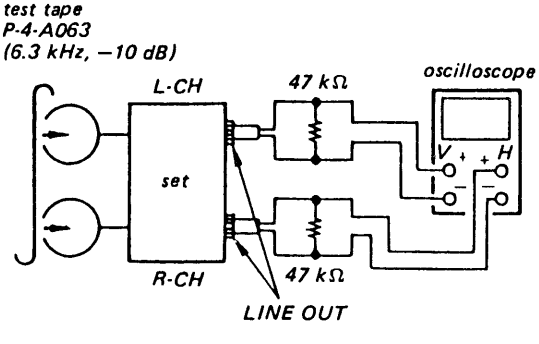
1. Put the set into the FWD PB mode.

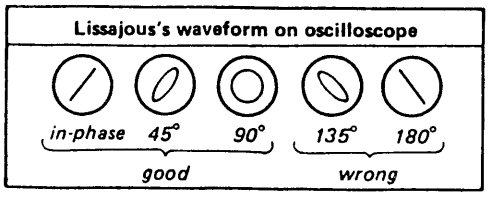


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 3 dB.



3. Check the phase in the PB mode.



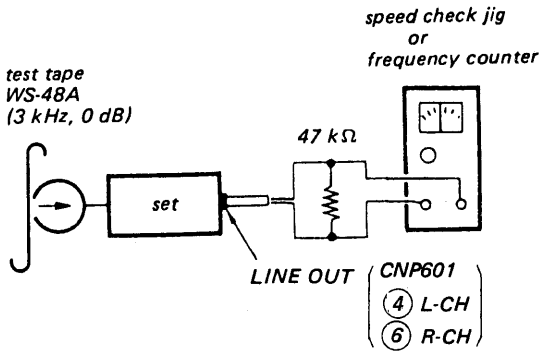


4. Repeat the above adjustment for the PB REV mode.

Capstan Motor Tape Speed Adjustment

Procedure:

1. Put the set into the FWD PB mode.

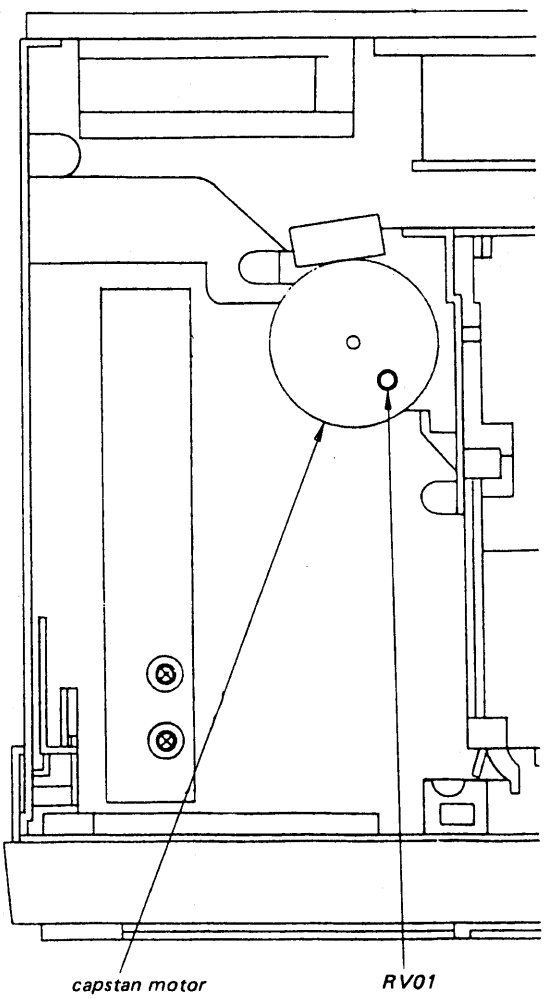


Specification: Constant speed

Speed check jig	Frequency counter
−1.5 to +2.5%	2,955 to 3,075 Hz

Adjust so that the frequency difference between the FWD and REV modes is within 1.5% (45 dB).

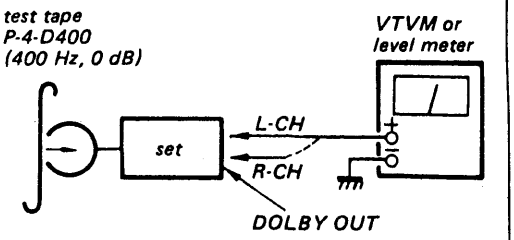
Adjustment Location: RV01



DOLBY NR Level Adjustment

Setting:

DOLBY NR switch: OFF
METAL switch: OFF

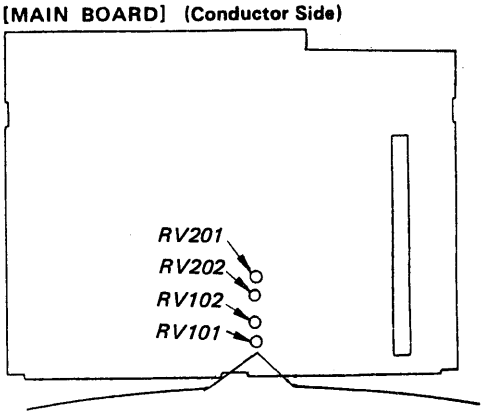


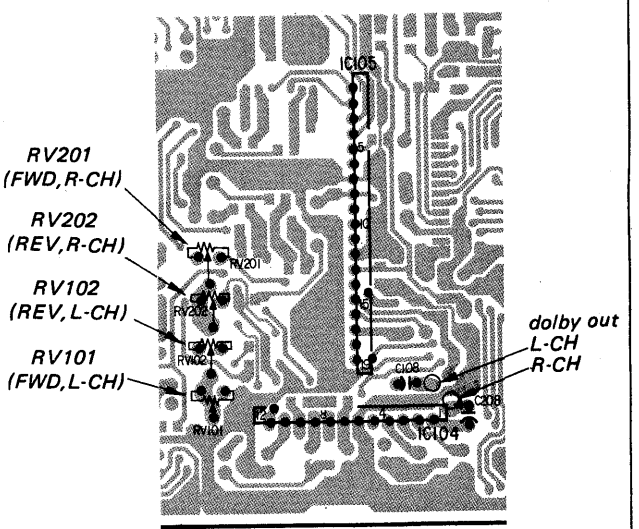
Procedure:

1. Put the set into the FWD PB mode.
2. Adjust RV101 (L-CH) and RV201 (R-CH) so that VTVM reading is − 4.7 ± 0.3 dB.
3. Put the set into the REV PB mode.
4. Adjust RV102 (L-CH) and RV202 (R-CH) so that VTVM reading is − 4.7 ± 0.3 dB. (− 4.7 ± 0.3 dB: approx. 0.47 to 0.44 V)

Adjustment Locationn : MAIN board

[MAIN BOARD] (Conductor Side)





REFERENCE

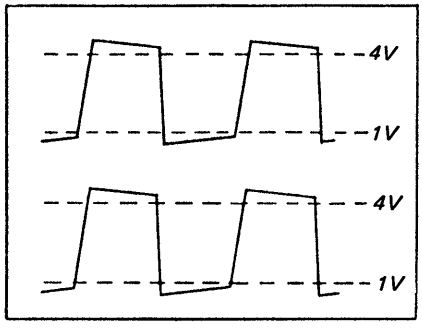
Tape End Detection Adjustment

Tape End Detection adjustment
Before adjusting,set to the test mode 2.
(Refer to Torque Measurement.)

Test tape: *C-60 (or any)*
Setting: *FF or REW*

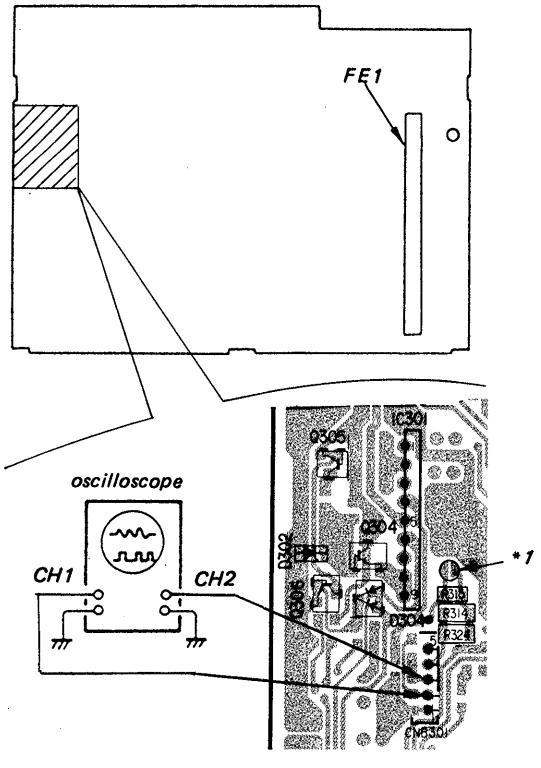
Procedures:

1. Confirm that the both voltages of CH1 and CH2 are more than 4 V at their higher level and less than 1 V at their lower level.
2. If the specification above is not satisfied make a solder bridge at the portion of the pattern marked with *1 on MAIN BOARD, and confirm that the specification of Procedure 1 is satisfied.



Adustment Location : MAIN board

[MAIN BOARD] (Conductor Side)



TUNER SECTION

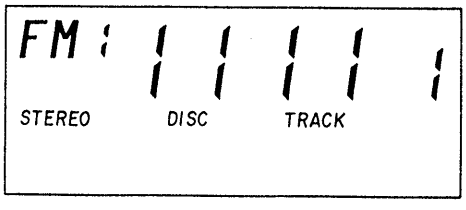
Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

Before AM Auto Scan/Stop Level Adjustment, set to the test mode 1.

Setting Procedure:

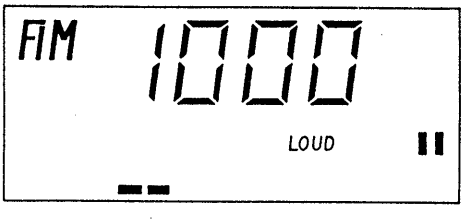
1. While pressing "MUTE" (S724) and "1" (S702) buttons simultaneously,press "RESET" (S740) button.
2. When the test mode is set and "LOUD" is on in AM mode,measurement is available.
   It becomes the standard AM 28 ± 4 dB.
   " ▮▮ " (PAUSE mark) is displayed on the right foot of the display window.
3. Test mode releasing procedure after measuring is pressing "OFF" (S714) or "RESET" (S740) buttons.
   * FM Auto Scan/Stop Level Adjustment is available on either normal operation or the test mode operation.

LCD display pattern on setting the test mode 1 (step 1).



* First display pattern in 12 steps.

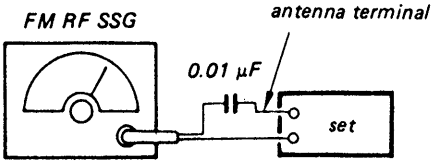
LCD display pattern during AM receiving on the test mode 1.



FM Auto Scan/Stop Level Adjustment

Setting:

Band switch: : FM
MONO switch : ON
Frequency : 98.0 MHz: AEP model



Carrier frequency: 98.0 MHz: AEP model
Output level: 25 dB (18 μV)
Mode: mono, unmodulated

Procedure:

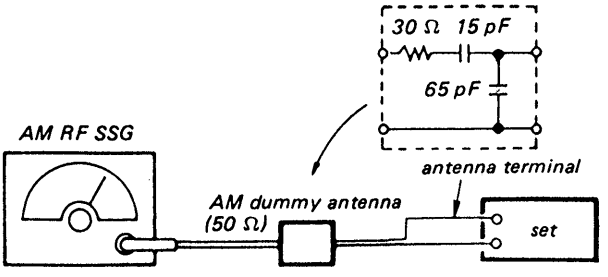
1. Tune in 98MHz: AEP model.
2. Adjust RV2 so that the VOM reading changes from low to high (5 V reference voltage).
3. When the FM RF SG's output level is 25 ± 4dB, check that the auto scan stopped.

AM Auto Scan/Stop Level Adjustment

Note : This adjustment should be made after FM auto scan stop level adjustment is completed.

Setting:

Band switch: : AM: AEP model
Frequency : 999 kHz

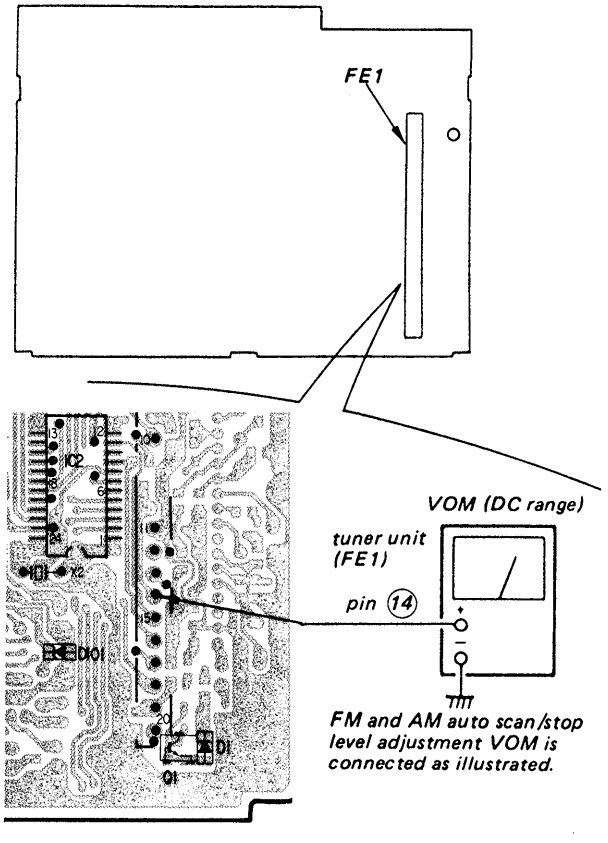


999 kHz:AEP model
28 dB (25 V)
no modulation

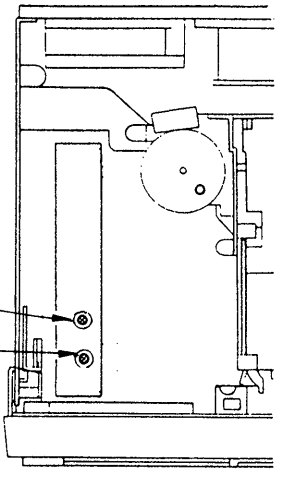
Procedure:

1. Tune in 999 kHz: AEP model.
2. Adjust RV3 so that the VOM reading changes from low to high (5.6 V reference voltage).
3. When the AM RF SG's output level is 28 ± 4dB, check that the auto scan stopped.

[MAIN BOARD] (Conductor Side)



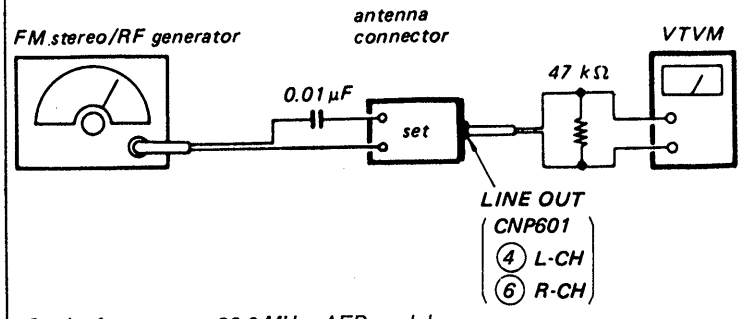
FM and AM auto scan/stop level adjustment VOM is connected as illustrated.



FM Stereo Separation Adjustment

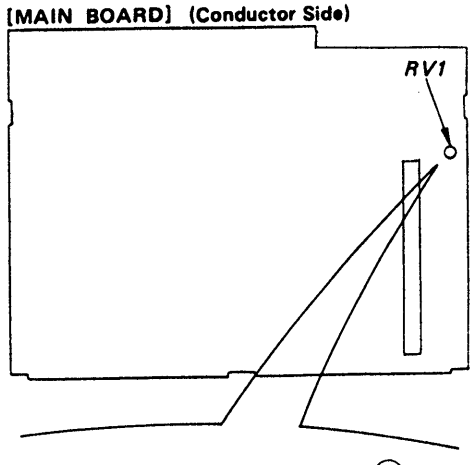
Setting:

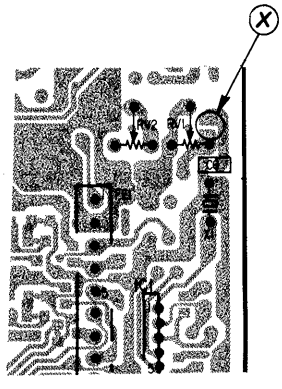
Band switch: FM
Frequency: 98.0 MHz: AEP model



Carrier frequency: 98.0 MHz: AEP model
Output level: 70 dB (3.2 mV)
Modulation: main; 1 kHz , 33.75 kHz deviation
sub; 1 kHz , 33.75 kHz deviation
19 kHz pilot; 7.5 kHz deviation

Adjustment Location:





Procedure:

1. Adjust RV1 for a best stereo separation at a LINE OUT level of approximately 0 dB.
   More than 35 dB is good.

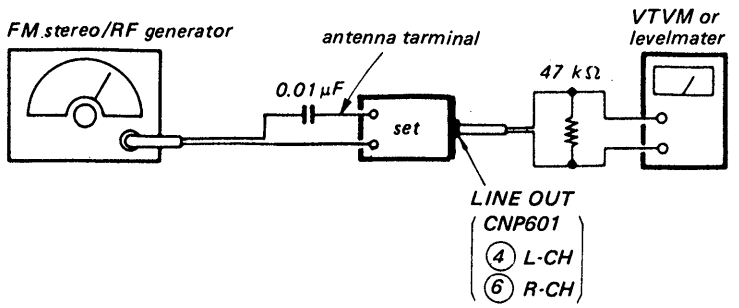
FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RV1 for minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RV1 for minimum reading.

   L-CH Stereo separation: (A) – (B)
   R-CH Stereo separation: (C) – (D)
   The separations of both channels shoul be equal.
2. If the result is not enough, make a solder bridge at (X) position and step back to proceduer 1.

FM Carrier Leakage

Seeting:

Band switch: FM
Frequency: 98.0 MHz: AEP model



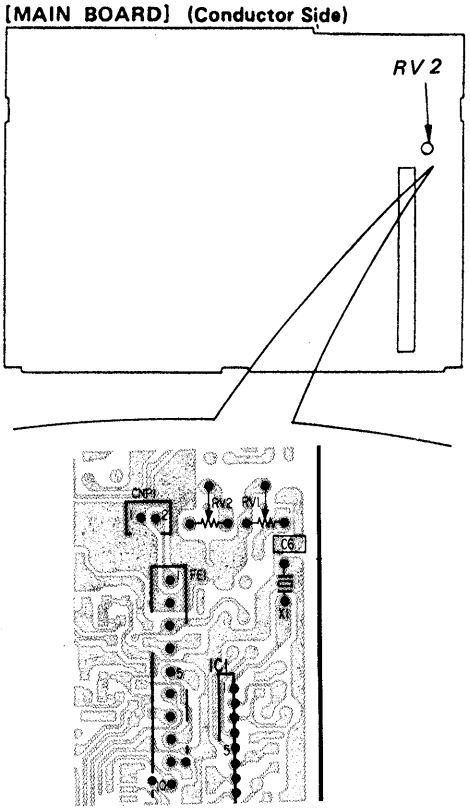
Carrier frequency: 98.0 MHz: AEP model
Output level: 70 dB (3.2 mV)
Modulation: main; 1 kHz , 33.75 kHz deviation
sub; 1 kHz , 33.75 kHz deviation
19 kHz pilot; 7.5 kHz deviation

Procedure:

Adjust with RV2 so that the carrier leakage becomes to the best condition.

Adjustment Location:

[MAIN BOARD] (Conductor Side)



SECTION 4
DIAGRAMS

4-1. IC501 (μPD75516G) FUNCTIONAL DESCRIPTION

IC 501 (μPD 75516G) DESCRIPTION

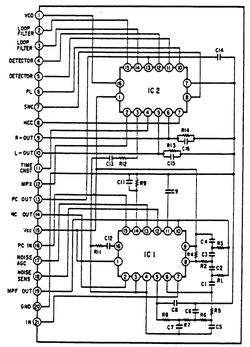
Pin No.	Name	I/O	Description
1	AO	I	Destination setting input.
2	AVREF	I	A/D converter reference voltage input.
3	VDD	–	Positive power input.
4	VDD	–	
5	LM+	O	Forward rotation motor control.
6	LM-	O	Reverse rotation motor control.
7	DPL	O	Direction plunger.
8	DPM	O	Capstan motor control.
9	POS3	I	Tape mechanical deck position switch.
10	POS2	I	
11	POS1	I	
12	POS0	I	
13	MUTE	O	Muting control.
14	COLOR	O	Color illumination switching control.
15	VOLCE	O	Electronic volume enable signal.
16	LCDCE	O	LCD driver enable signal.
17	DATA IN	I	Information input from PLL-IC.
18	DATA OUT	O	Serial data output.
19	CLK OUT	O	Serial transmission clock.
20	PLLCE	O	PLL-IC enable signal.
21	KI3	I	Key information input.
22	KI2	I	
23	KI1	I	
24	KI0	I	
25	KO7	O	Key-return signal source.
26	KO6	O	
27	KO5	O	
28	KO4	O	
29	KO3	O	
30	KO2	O	
31	KO1	O	
32	KO0	O	

Pin No.	Name	I/O	Description
33	GND	–	Ground.
34	SIG2	O	Audio-signal switching signal.
35	SIG1	O	
36	AUX-ON	O	AUX signal ON.
37	PPA MUTE	O	PW-AMP mute.
38	METAL	I/O	Metal select.
39	DOLBY	O	Dolby ON/OFF select.
40	DOLBY-C	O	Dolby B/C select. (H: B, L: C)
41	STEREO	I/O	Auto stereo/forced monochrome select.
42	PTUNER	O	Tuner power-antenna output.
43	ILL-ON	O	Illumination output.
44	POWER	O	System power output.
45	BEEP	O	Buzzer output signal (2KHz/1KHz).
46	DK	I	DK signal input.
47	SK	I	SK signal input.
48	BK	I	BK signal input.
49	REMCOM	I	Remote control input.
50	CD-DATA-IN	I	Auto changer information input.
51	—	–	—
52	CD-CLK-IN	I	CD data input clock.
53	BU-CHECK	I	Back-up check.
54	—	–	—
55	—	–	32.7 kHz.
56	—	–	Subsystem clock.
57	—	–	—
58	—	–	4.19 MHz.
59	—	–	Main system clock.
60	RESET	I	Reset input.
61	CD-DATA	O	CD data transmission data line.
62	CD-CLK	O	CD data transmission clock line.
63	DSPSEL	O	Display-select.
64	OUT-RUN	O	AUX-STOP signal.

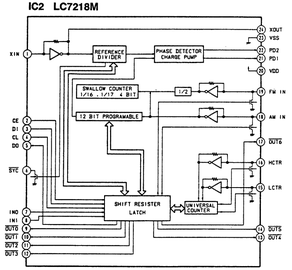
Pin No.	Name	I/O	Description
65	CD-MUTE	I	CD mute request input.
66	CD-CHECK	I	CD loaded/not loaded check.
67	AUX-MUTE	I	AUX mute request input.
68	REM-IN	I	AUX operation request input.
69	HANDLE	I	Handle switch input.
70	—	–	—
71	N/R	I	Tape-running direction input. (L: normal, R: reverse)
72	AMS/IN	I	Tape audio signal input.
73	—	–	—
74	ACC	I	Accessory input.
75	LINE-IN	I	Equalizer remote input.
76	REEL2	I	Feed reel input.
77	REEL1	I	Take-up reel input.
78	TEST	I	Test mode switch.
79	A2	I	Regions setting input.
80	A1	I	

• IC Block Diagrams

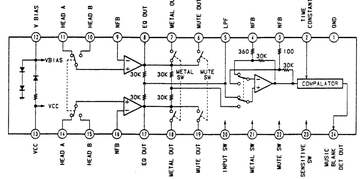
IC1 STK-3400



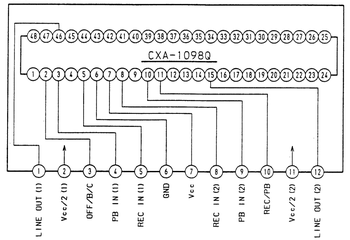
IC2 LC7218M



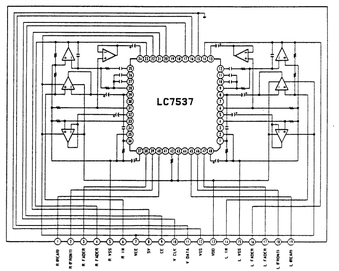
IC101 BA3430FS



IC104 NR9552



IC105 EV1200



– Continued on page 26 –

4-2. MAIN, KEY PRINTED WIRING BOARDS

Note:

- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▒▒▒ : Pattern on the side which is seen.
- ▒▒▒ : Pattern of the rear side.

• Semiconductor Lead Layouts

BA14741F
BU4081BF

EV1200
NMX3S900

DTZ11A
DTZ4.3B
DTZ4.7A
DTZ5.1B
DTZ5.6B
DTZ6.2B
DTZ7.5A
DTZ9.1A
DTZ9.1B
1SS332

BA3430FS
LC7218M

μPD75516GF-133-3B9

RLZ-J11A
RLZ-J4.7A

BU4052BF

10E2

LC7582

CL-55Y/PG-D

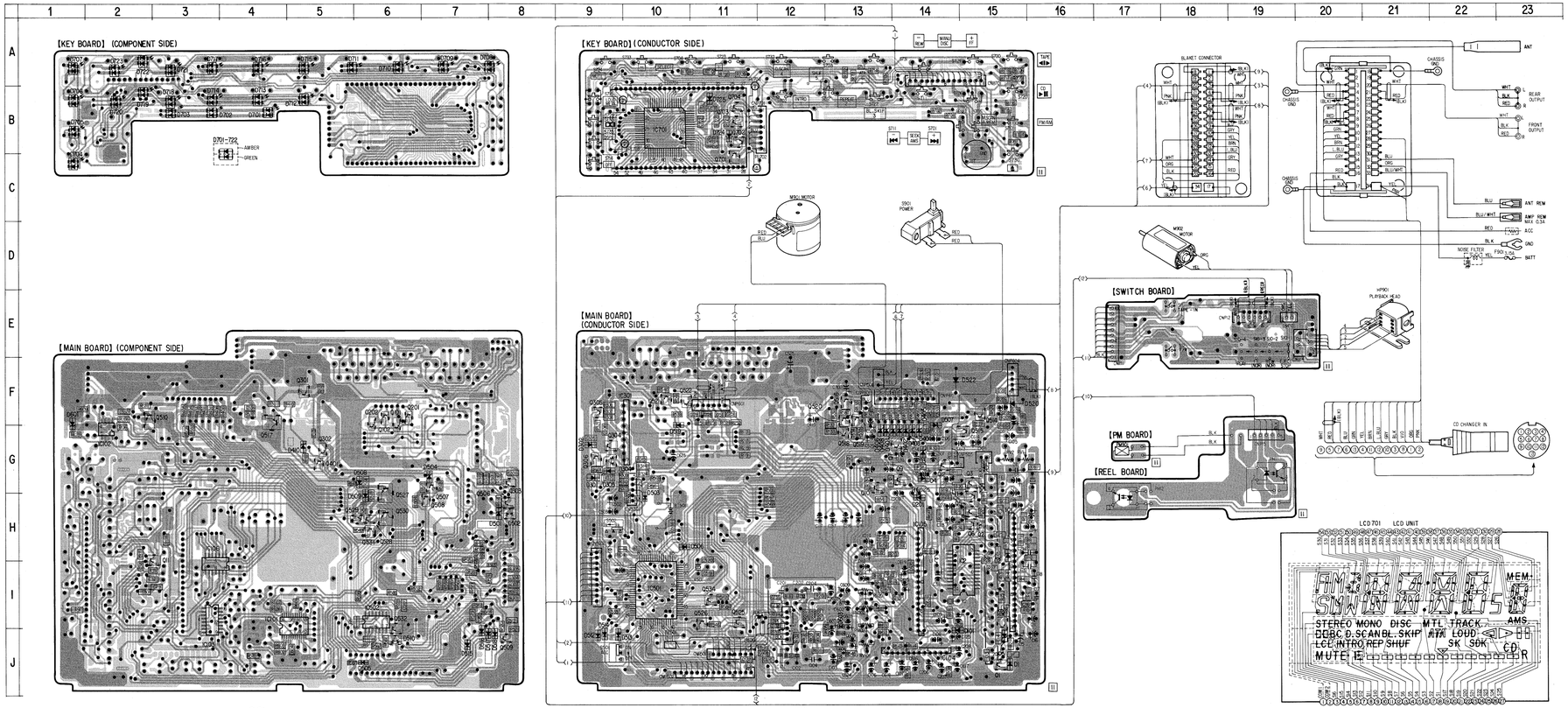
M5280FP

DSA3A4

M54644BL

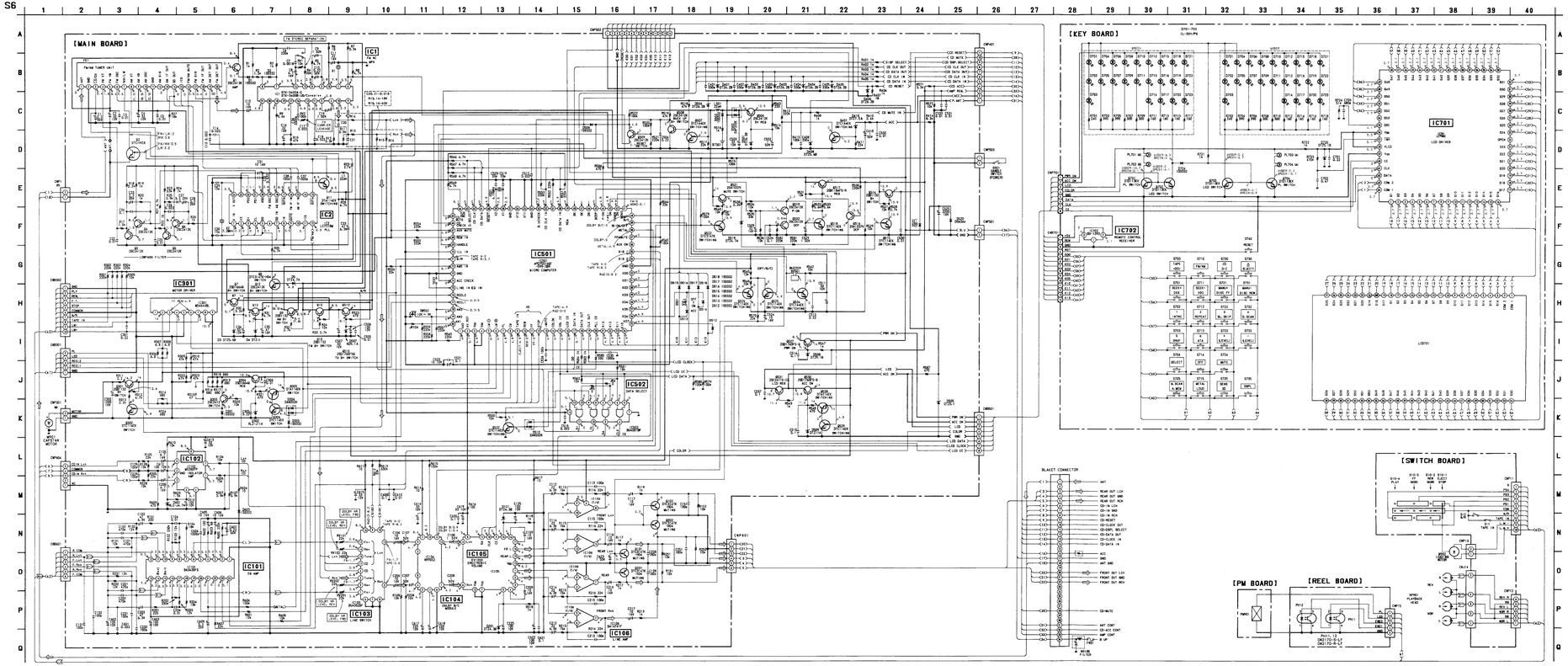
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	J-15	IC701	B-10
D2	H-15	IC702	B-15
D3	G-14	Q1	J-15
D4	G-14	Q2	H-15
D5	J-15	Q3	G-15
D101	I-15	Q4	G-15
D201	H-14	Q5	H-15
D301	G-9	Q6	H-15
D302	G-9	Q7	G-14
D304	G-9	Q8	I-15
D305	G-9	Q9	G-14
D401	G-13	Q10	G-13
D402	G-14	Q11	H-3
D403	G-14	Q12	G-14
D404	G-14	Q101	F-6
D405	G-14	Q102	G-6
D406	G-13	Q201	F-6
D408	G-13	Q202	F-6
D410	G-5	Q301	F-5
D501	H-8	Q302	G-5
D502	H-8	Q303	G-8
D503	G-10	Q304	G-9
D504	G-7	Q305	F-9
D505	J-6	Q306	G-9
D506	H-10	Q401	G-5
D507	F-14	Q506	H-8
D508	G-6	Q507	G-7
D509	G-6	Q508	H-7
D510	J-6	Q509	J-8
D512	J-9	Q510	F-2
D513	J-9	Q514	F-15
D514	J-9	Q515	G-15
D515	J-7	Q516	F-13
D516	J-7	Q517	F-4
D517	J-7	Q518	G-13
D518	J-8	Q519	F-13
D519	F-10	Q520	F-13
D520	F-15	Q521	F-10
D522	F-14	Q522	F-10
D601	F-1	Q525	I-11
D603	I-13	Q526	I-11
D701	B-4	Q527	G-6
D702	B-3	Q528	H-6
D703	B-3	Q529	H-6
D704	C-1	Q530	H-6
D705	B-1	Q531	H-6
D706	B-1	Q532	J-6
D707	A-1	Q534	I-11
D708	A-7	Q701	C-11
D709	A-7	Q702	B-11
D710	A-6	Q703	B-11
D711	A-5	Q704	B-11
D712	B-5		
D713	B-4		
D714	B-3		
D715	A-5		
D716	A-4		
D717	A-3		
D718	B-3		
D719	B-2		
D720	B-2		
D721	A-3		
D722	A-2		
D723	A-2		
D724	B-11		
D725	B-11		
IC1	H-15		
IC2	H-15		
IC101	I-4		
IC102	G-2		
IC103	I-3		
IC104	J-14		
IC105	H-14		
IC106	H-3		
IC301	F-10		
IC501	I-10		
IC502	J-6		



4-3. MAIN, KEY SCHEMATIC DIAGRAM

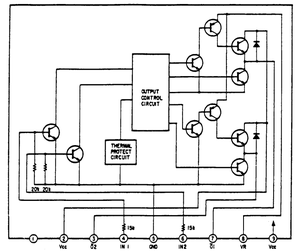
• See page 17, 18 and 26 for IC Block Diagrams.



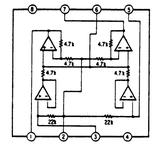
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : B + Line.
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PLAY
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇨ : PB

IC301 M54644BL



IC102 M5280FP



4-4. POWER AMPLIFIER PRINTED WIRING BOARDS

• Semiconductor Lead Layouts

M5218L

μ PC2500H

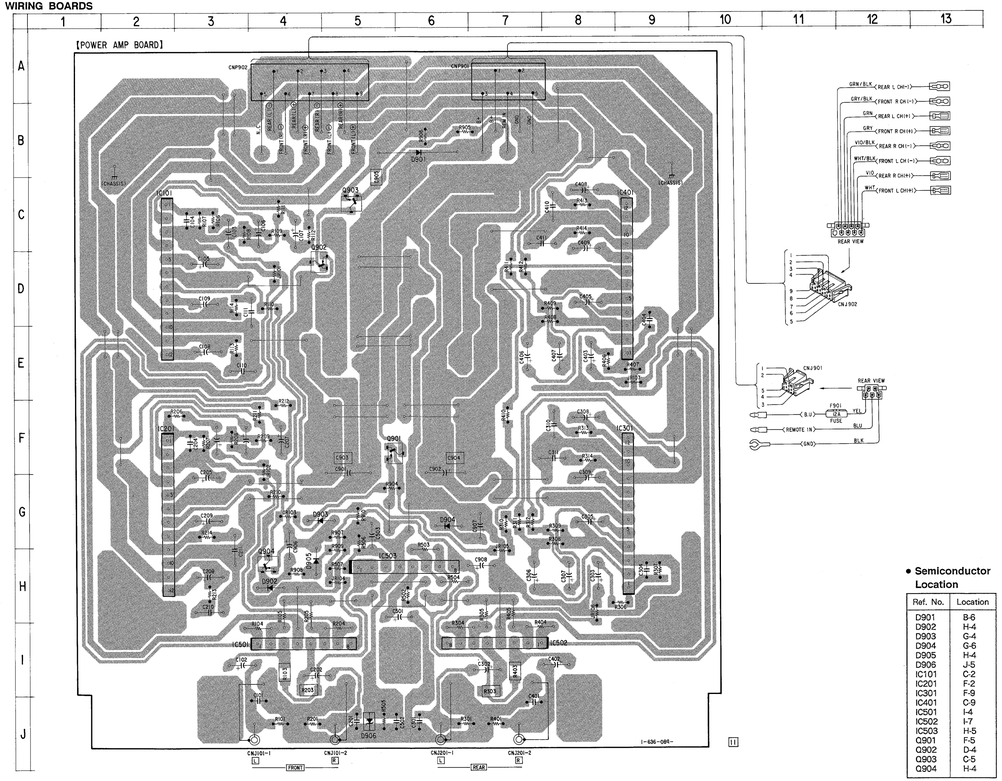
DTA114EK
2SA1162
2SC1623

DSA3A4

DTZ4.7A

RD9.1ES-B1
1SS119

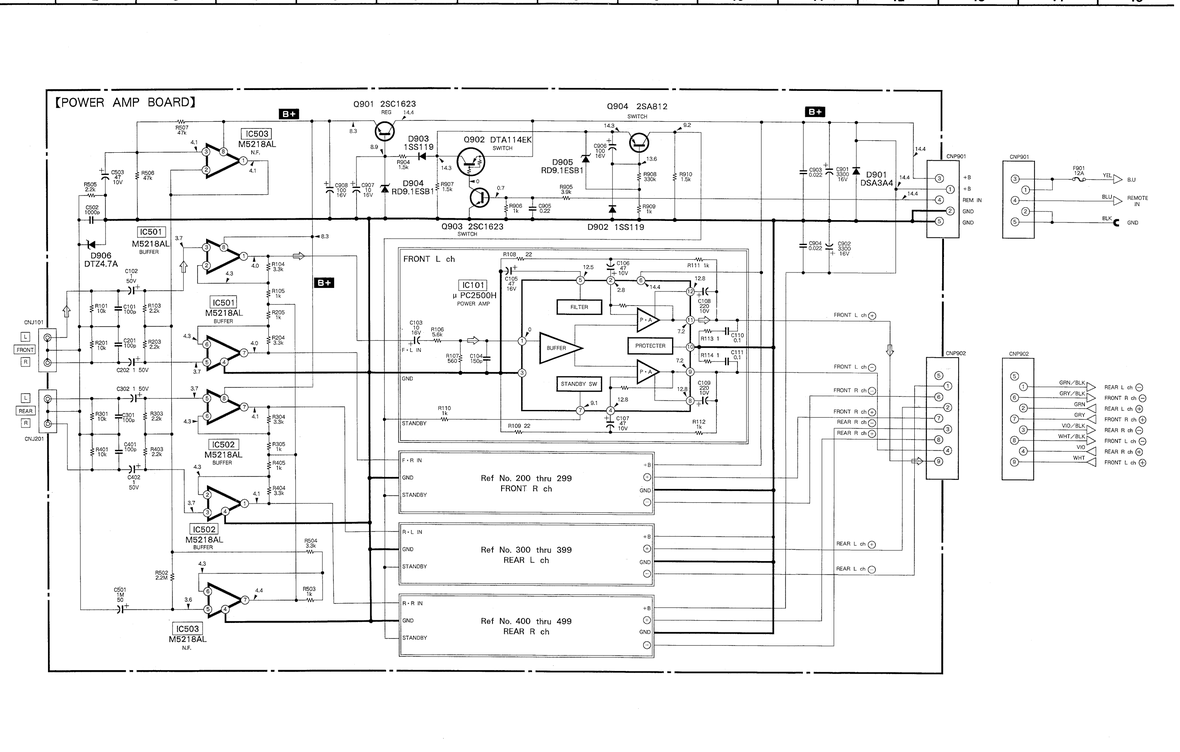
Note:
• ○——○ : parts extracted from the component side.



• Semiconductor Location

Ref. No.	Location
D901	B-6
D902	H-4
D903	G-4
D904	G-6
D905	H-4
D906	J-5
IC101	C-2
IC201	F-2
IC301	F-9
IC401	C-9
IC501	I-4
IC502	I-7
IC503	H-5
Q901	F-5
Q902	D-4
Q903	C-5
Q904	H-4

4-5. POWER AMPLIFIER SCHEMATIC DIAGRAM

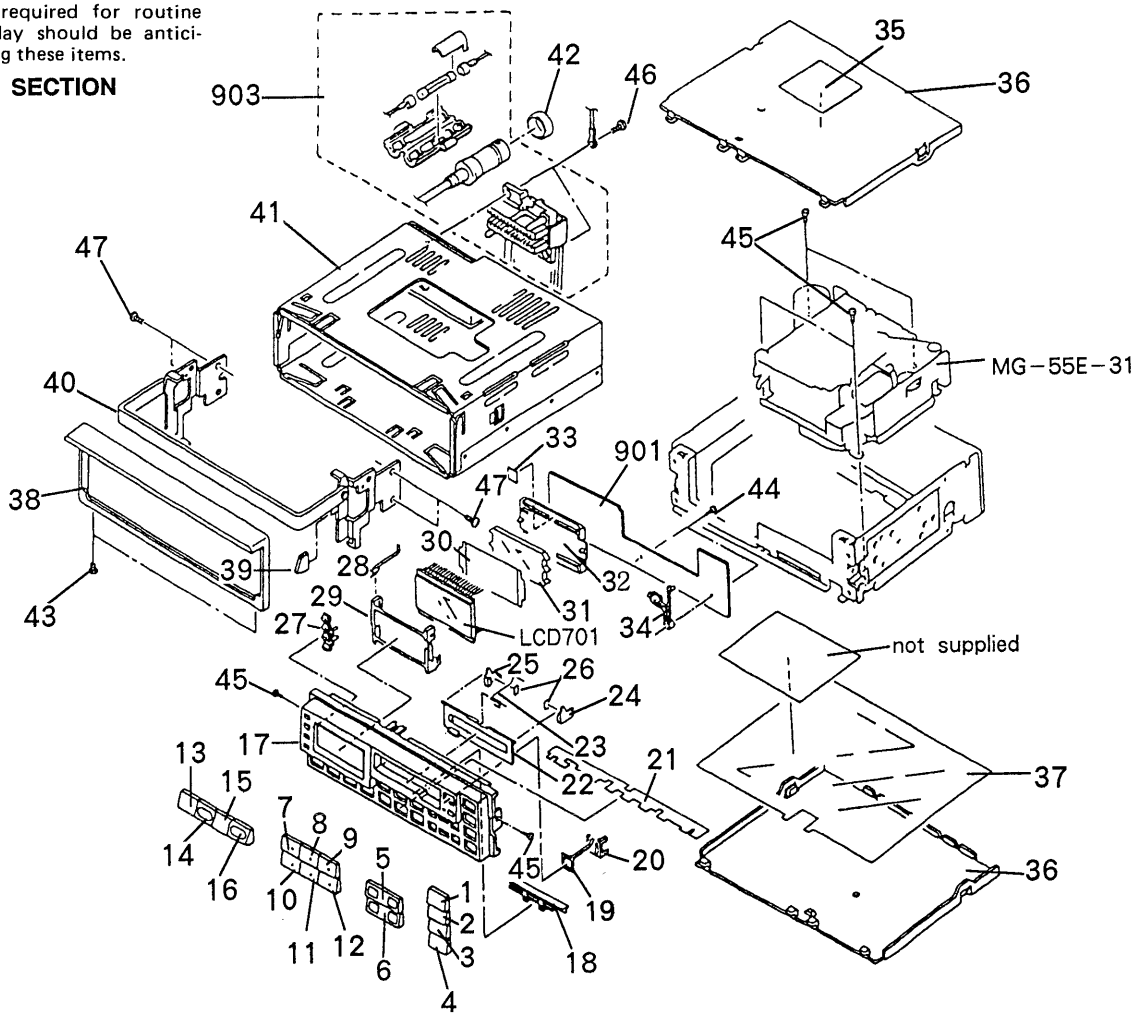


SECTION 5
EXPLODED VIEWS

NOTE:

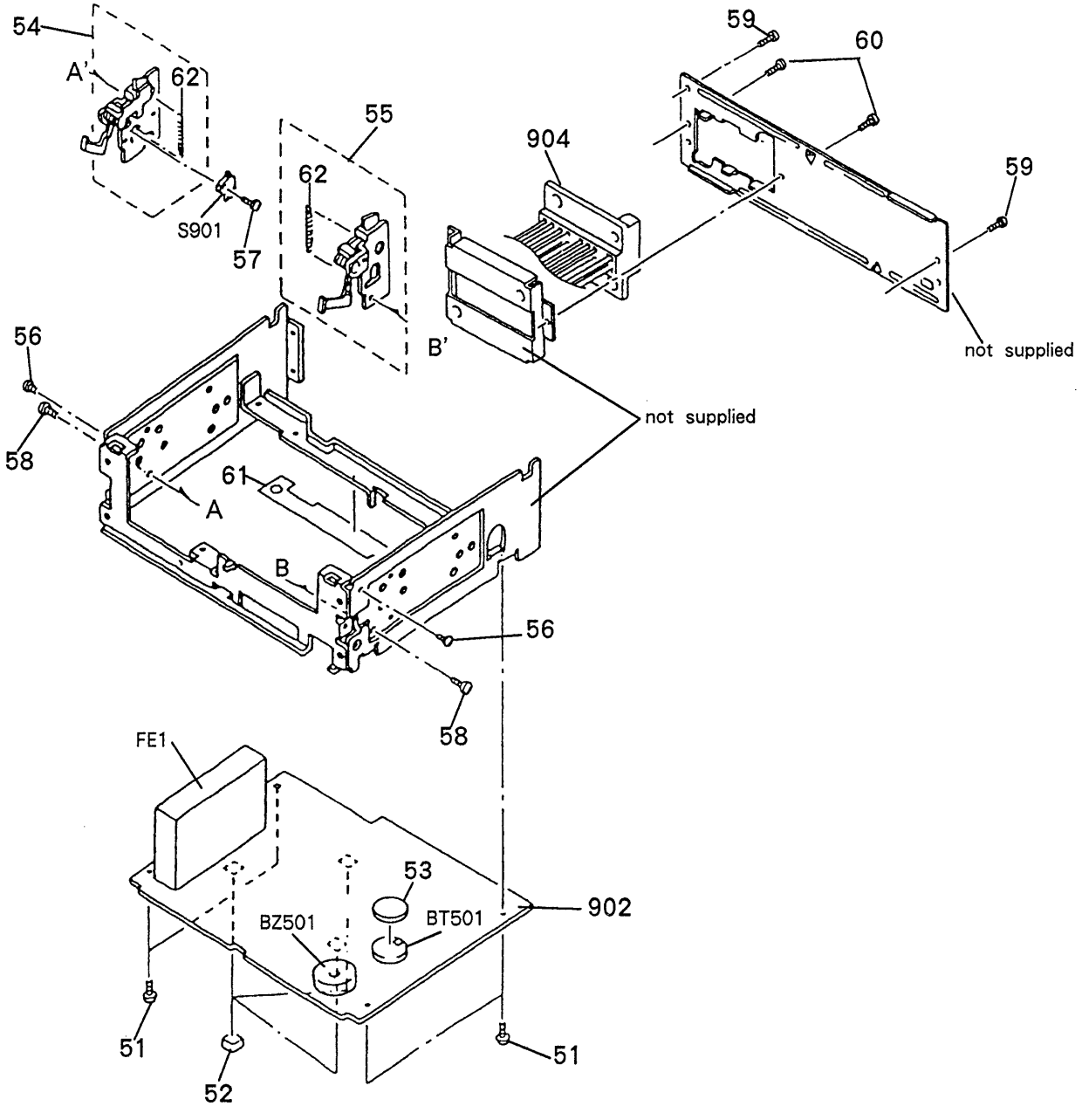
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts Color

(1) FRONT PANEL SECTION



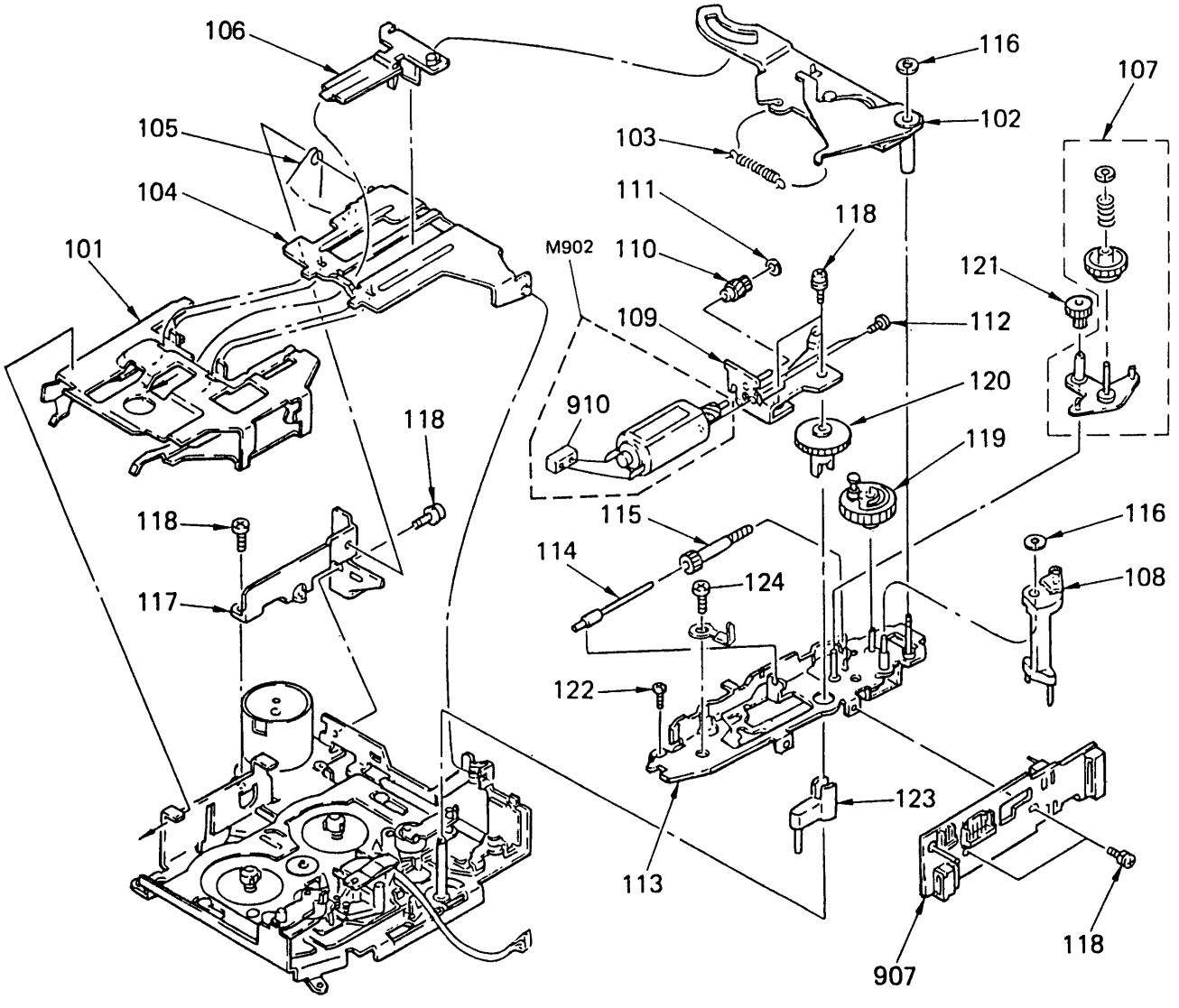
No.	Part No.	Description	Remarks
1	3-349-473-01	BUTTON (RU:N1)(EJECT)	
2	3-349-472-71	BUTTON (M:N1)(FM/AM)	
3	3-349-472-31	BUTTON (M:N1)(CD)	
4	3-349-474-41	BUTTON (RD:N1)(TAPE)	
5	3-349-492-11	BUTTON (M:S2)(SEEK AMS)	
6	3-349-492-41	BUTTON (M:S2)(MANU DISC)	
7	3-349-471-01	BUTTON (M:N1P)(1)	
8	3-349-471-11	BUTTON (M:N1P)(2)	
9	3-349-471-21	BUTTON (M:N1P)(3)	
10	3-349-471-31	BUTTON (M:N1P)(4)	
11	3-349-496-01	BUTTON (M:N1P)(5)	
12	3-349-496-11	BUTTON (M:N1P)(6)	
13	3-349-443-01	BUTTON (MUTE)	
14	3-349-442-01	BUTTON (LEVEL. -)	
15	3-349-444-01	BUTTON (SELECT)	
16	3-349-441-01	BUTTON (LEVEL. +)	
17	3-349-445-51	PANEL, FRONT	
18	3-357-014-01	PLATE (C DOOR), LIGHT GUIDE	
19	*3-357-045-01	PLATE (RAY CATCHER), GROUND	
20	3-357-015-01	FILTER (RAY CATCHER)	
21	*3-353-454-01	PLATE (F.P), GROUND	
22	3-358-651-31	DOOR, CASSETTE	
23	3-349-454-01	SPRING (C DOOR), TORSION	
24	3-349-446-01	PLATE (RIGHT), LIGHT GUIDE	
25	3-349-447-01	PLATE (LEFT), LIGHT GUIDE	
26	*3-901-417-01	SPACER	
27	3-349-450-01	BUTTON (4 GANG)	
28	*3-353-410-01	PLATE, GROUND	
29	*3-349-453-01	PLATE (LCD), GROUND	
30	3-349-440-01	SHEET (REFLECTOR)	
31	*3-349-438-01	PLATE (LCD), LIGHT GUIDE	
32	*3-349-439-01	HOLDER (LIGHT GUIDE PLATE)	
33	3-327-119-01	SPACER (A)	
34	3-357-019-01	BUTTON (RESET)	
35	*3-362-539-01	LABEL, MODEL NUMBER	
36	*3-353-402-11	COVER	
37	*3-344-560-21	INSULATOR (3)	
38	3-344-564-01	FRAME, ORNAMENTAL	
39	3-344-526-02	BUTTON (RELEASE)	
40	X-3344-508-1	HANDLE ASSY	
41	*X-3344-509-3	BRACKET ASSY	
42	3-566-347-00	COVER (A), CONNECTOR	
43	7-627-553-38	SCREW, PRECISION +P 2X3	
44	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
45	7-621-770-87	SCREW +PTT 2.6X5 (S)	
46	7-682-652-09	SCREW +PSW 3X16	
47	3-344-561-01	SCREW (M4X5)	
901	A-3279-931-A	MOUNTED PCB (B), KEY	
903	1-575-804-21	CORD (WITH CONNECTOR)	
LCD701	1-808-773-11	DISPLAY PANEL, LIQUID CRYSTAL	

(2) CHASSIS SECTION



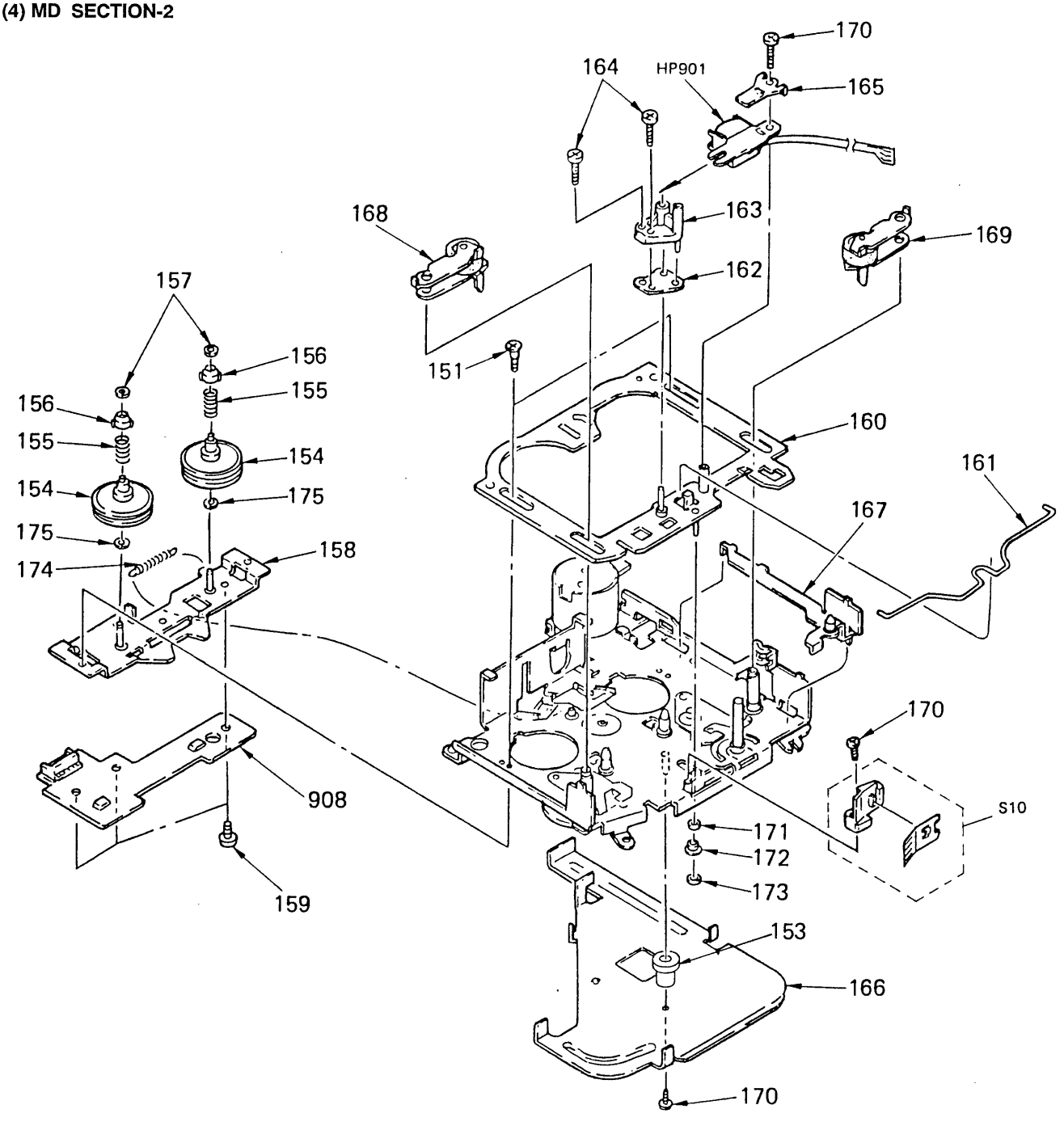
No.	Part No.	Description	Remarks
51	3-344-501-11	SCREW (+ PTT 3X8), GROUND POINT	
52	9-911-841-XX	CUSHION, CASSETTE LID	
53	*3-896-343-01	SHEET, INSULATING	
54	X-3344-502-1	LOCK ASSY (LEFT)	62
55	X-3344-503-1	LOCK ASSY (RIGHT)	62
56	7-627-553-38	SCREW, PRECISION +P 2X3	
57	7-621-283-00	SCREW +P 2X5	
58	7-621-773-86	SCREW +PTT 2.6X4 (S)	
59	7-621-770-87	SCREW +PTT 2.6X5 (S)	
60	7-682-546-04	SCREW +PTT 3X5 (S)	
61	*3-353-458-01	INSULATOR (CHASSIS)	
62	3-645-189-00	SPRING, TENSION	
902	*A-3222-175-A	PC BOARD ASSY, MAIN	
904	1-575-805-11	CORD (WITH CONNECTOR)	
BT501	1-528-225-11	BATTERY, LITHIUM	
BZ501	1-529-078-11	BUZZER, PIEZOELECTRIC	
FE1	1-465-141-11	TUNER UNIT	
S901	1-570-771-11	SWITCH (POWER)	

(3) MD SECTION-1



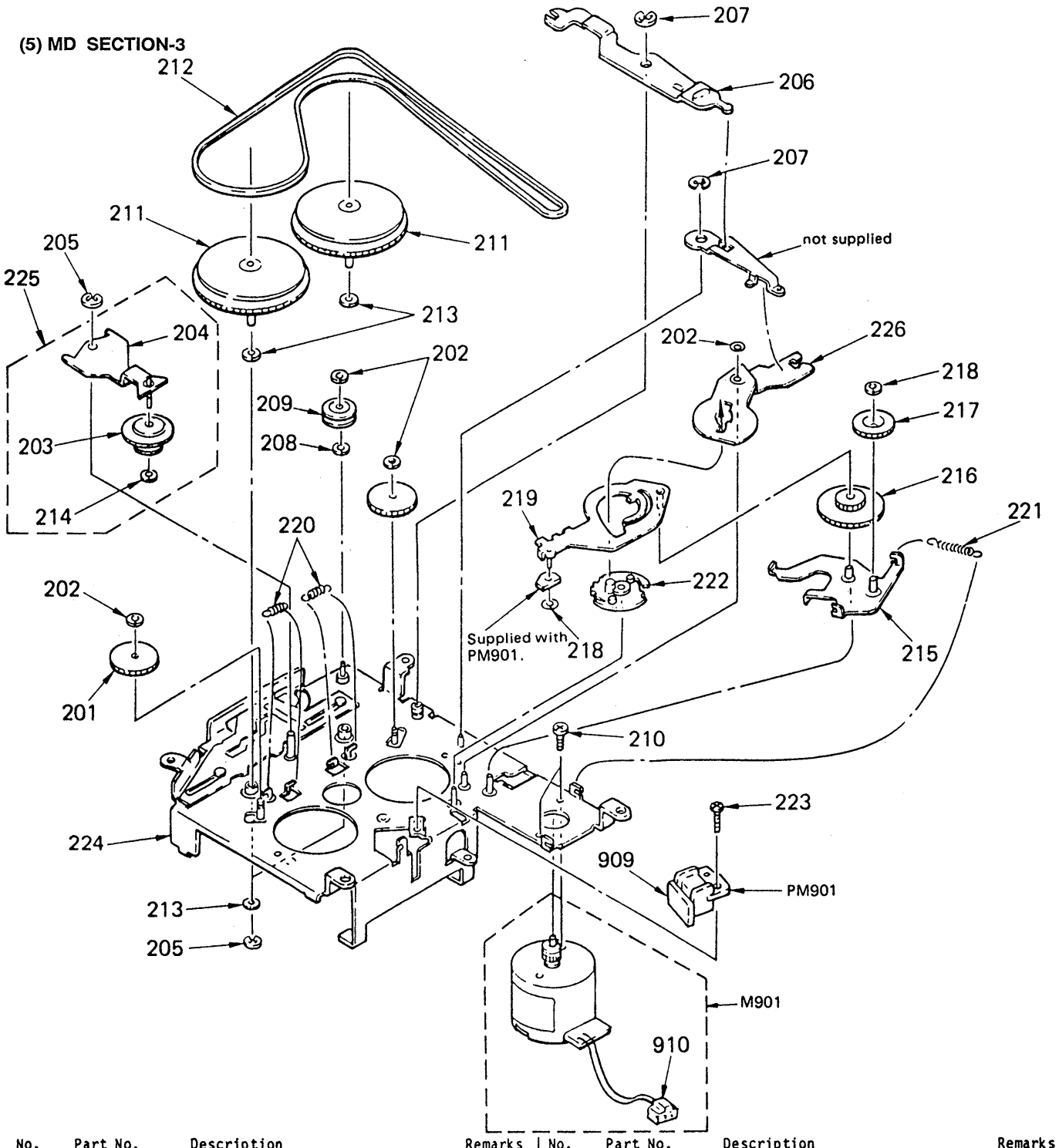
No.	Part No.	Description	Remarks
101	*3-344-103-01	HOUSING, CASSETTE	
102	*X-3344-121-1	ARM ASSY, SUCTION	
103	3-344-216-01	SPRING (SUCTION ARM), TENSION	
104	*X-3344-120-1	HANGER ASSY, HOUSING	
105	3-344-113-03	SPRING	
106	*3-344-118-01	CATCHER	
107	A-3239-954-A	GEAR ASSY, DRIVING ARM	
108	*X-3344-122-1	ARM ASSY, REVERSE	
109	*X-3344-110-1	BRACKET ASSY, MOTOR	
110	3-344-170-01	GEAR (A), DRIVING	
111	3-344-223-01	WASHER	
112	7-627-553-27	SCREW, PRECISION +P 2X2.5	
113	*X-3344-108-1	CHASSIS ASSY, MCU	
114	*3-344-157-01	SHAFT, DRIVING GEAR (B)	
115	3-344-156-01	GEAR (B), DRIVING	
116	3-344-222-01	WASHER	
117	*3-344-112-11	BRACKET, HANGER	
118	7-628-253-00	SCREW +PS 2X4	
119	X-3344-119-1	GEAR ASSY, LOADING CAM	
120	3-344-114-01	GEAR, MODE	
121	3-344-108-01	GEAR (A), FRICTION	
122	3-703-502-31	SCREW	
123	X-3344-117-1	ARM ASSY, MODE	
124	7-621-773-86	SCREW +2.6X4	
907	*1-624-413-11	PC BOARD, SWITCH	
910	*1-563-470-11	HOUSING, CONNECTOR 2P	
M902	A-3239-956-B	MOTOR SUB ASSY, L	

(4) MD SECTION-2



No.	Part No.	Description	Remarks
151	3-344-110-01	SCREW (HB), STEP	
153	3-344-251-01	RETAINER, MODE LEVER	
154	X-3344-104-1	TABLE ASSY, REEL	
155	3-344-143-01	SPRING (BT), COMPRESSION	
156	3-344-136-01	CAP, REEL	
157	3-344-224-01	WASHER	
158	*X-3344-105-1	BRACKET ASSY, REEL TABLE	
159	7-627-553-27	SCREW, PRECISION +P 2X2.5	
160	*X-3344-103-1	BASE ASSY, HEAD	
161	3-344-129-01	SPRING	
162	3-344-128-01	SEAM, DAH	
163	3-344-127-01	ARM, DAH	
164	7-627-850-67	SCREW, PRECISION +P 1.4X4	
165	3-344-130-01	RETAINER, HEAD	
166	*3-344-220-01	COVER, MD	
167	*X-3344-118-1	LEVER ASSY, RVS CONVERSION	
168	X-3344-116-1	ARM (F) ASSY, PINCH	
169	X-3344-115-1	ARM (R) ASSY, PINCH	
170	7-627-850-18	SCREW, PRECISION +P 1.4X2.5	
171	3-344-117-01	ROLLER (B), H/B	
172	3-344-116-01	ROLLER (A), H/B	
173	3-344-222-01	WASHER	
174	3-344-217-01	SPRING (CAM LOCK LEVER), TENTION	
175	3-701-437-11	POLY-SLIDER (A)	
908	*1-624-412-11	PC BOARD, REEL	
HP901	1-543-567-11	HEAD, MAGNETIC (PLAYBACK)	
S10	A-3239-952-A	CONTACT (SWITCH) ASSY	

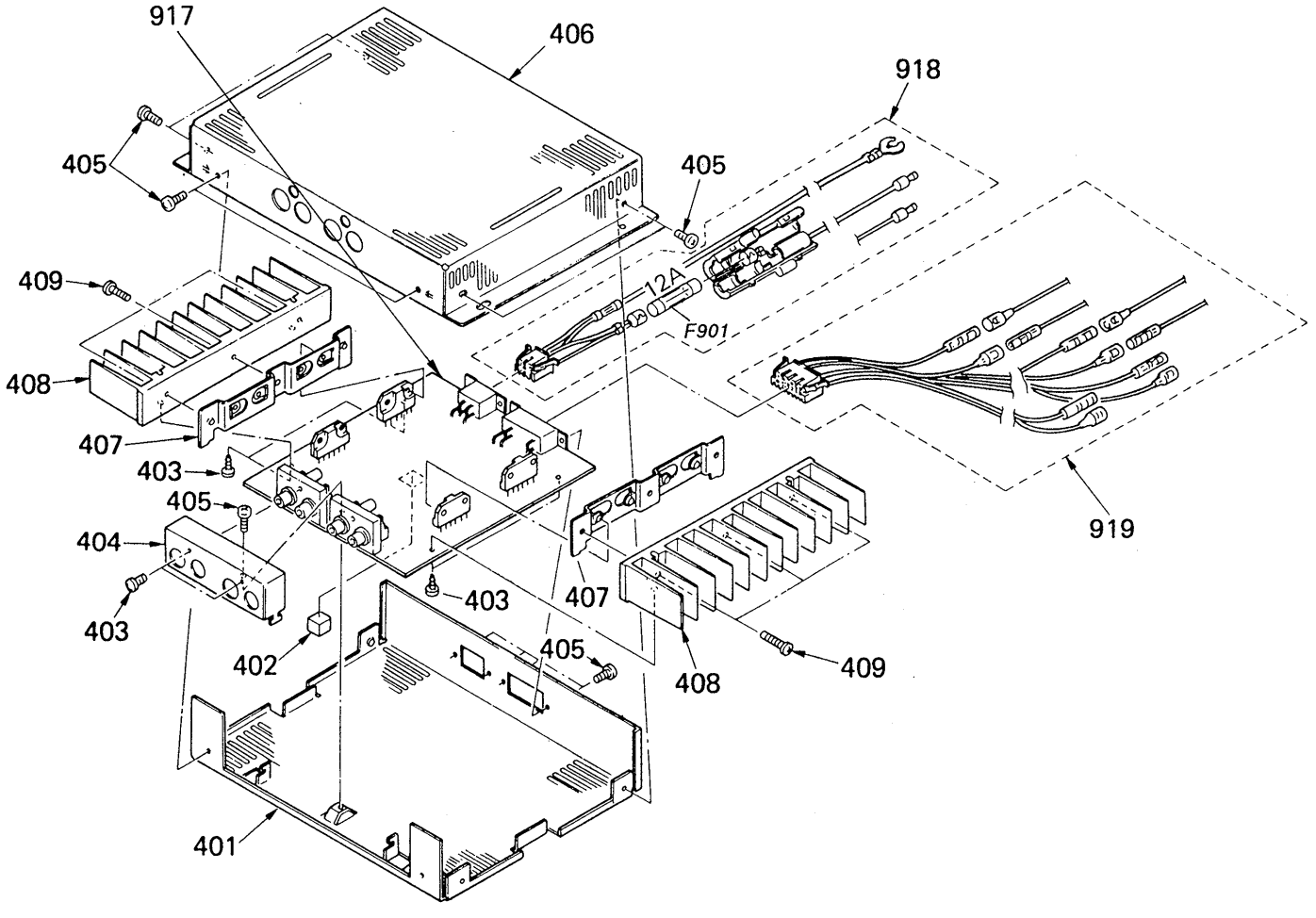
(5) MD SECTION-3



No.	Part No.	Description	Remarks
201	3-344-104-01	GEAR, PLAY	
202	3-344-222-01	WASHER	
203	X-3344-102-1	GEAR ASSY, FR	
204	*X-3344-101-1	ARM ASSY, FR	
205	3-590-768-00	RING (A), E	
206	*X-3344-139-1	ARM ASSY, POWER	
207	7-624-104-04	STOP RING 2.0, TYPE -E	
208	3-701-436-01	WASHER, 1.6	
209	3-344-105-01	PULLEY (ASSY), MIDWAY	
210	7-627-554-07	SCREW, PRECISION +P 2X2.2	
211	3-344-231-01	FLYWHEEL (A)	
212	3-344-115-01	BELT	
213	3-701-437-11	POLY-SLIDER (A)	
214	3-344-224-01	WASHER	
215	*X-3344-106-1	LEVER ASSY, RVS GEAR (B)	

No.	Part No.	Description	Remarks
216	3-344-146-01	GEAR (B), RVS	
217	3-344-147-01	GEAR (A), RVS	
218	3-344-223-01	WASHER	
219	X-3344-107-1	LEVER ASSY, CAM LOCK	
220	3-344-218-02	SPRING (PLAY ARM), TENSION	
221	3-344-215-01	SPRING, TENSION	
222	3-344-119-01	GEAR, RVS CAM	
223	7-627-850-67	SCREW, PRECISION +P 1.4X4	
224	*X-3344-135-1	CHASSIS ASSY, MECHANICAL	
225	A-3239-947-A	GEAR SUB ASSY, FR	203,204,214
226	*X-3344-114-1	LEVER ASSY, RVS	
909	*1-624-412-11	PC BOARD, PM	
910	*1-563-470-11	HOUSING, CONNECTOR 2P	
M901	X-3344-136-1	MOTOR SUB ASSY, CAPSTAN	
PM901	1-454-461-11	SOLENOID, PLUNGER	

(6) POWER AMPLIFIER SECTION



No.	Part No.	Description	Remarks
401	*3-342-243-01	CASE (LOWER)	
402	9-911-841-XX	CUSHION (B)	
403	7-685-646-79	SCREW +P 3X8 TYPE2 SLIT	
404	*3-342-223-01	BRACKET, JACK	
405	3-344-501-11	SCREW (+PTT 3X8), GROUND POINT	
406	*3-342-242-21	CASE (UPPER)	
407	*3-358-669-01	BRACKET, IC	
408	*3-342-225-01	HEAT SINK	
409	7-621-775-88	SCREW +PTT 2.6X16 (S)	
917	*1-636-089-11	PC BOARD, POWER AMP	
918	1-575-701-11	CORD (WITH CONNECTOR)	
919	1-559-200-21	CORD (WITH CONNECTOR)	
F901	1-532-678-11	FUSE, GLASS TUBE (12A)	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

Ref.No	Part No.	Description			
901	A-3279-931-A	MOUNTED PCB (B), KEY			
902	*A-3222-175-A	PC BOARD ASSY, MAIN			
903	1-575-804-21	CORD (WITH CONNECTOR)			
904	1-575-805-11	CORD (WITH CONNECTOR)			
907	*1-624-413-11	PC BOARD, SWITCH			
908	*1-624-412-11	PC BOARD, REEL			
910	*1-563-470-11	HOUSING, CONNECTOR 2P			
917	*1-636-089-11	PC BOARD, POWER AMP			
918	1-575-701-11	CORD (WITH CONNECTOR)			
919	1-559-200-21	CORD (WITH CONNECTOR)			
BT501	1-528-225-11	BATTERY, LITHIUM			
BZ501	1-529-078-11	BUZZER, PIEZOELECTRIC			
C1	1-126-161-11	ELECT	2.2MF	20%	35V
C2	1-124-229-00	ELECT	33MF	20%	10V
C3	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C4	1-124-229-00	ELECT	33MF	20%	10V
C5	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C7	1-130-474-00	MYLAR	0.0018MF	5%	50V
C8	1-126-288-11	ELECT	4.7MF	20%	16V
C9	1-126-301-11	ELECT	1MF	20%	50V
C10	1-124-464-11	ELECT	0.22MF	20%	50V
C11	1-124-234-00	ELECT	22MF	20%	16V
C13	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C14	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C15	1-126-157-11	ELECT	10MF	20%	16V
C16	1-124-234-00	ELECT	22MF	20%	16V
C17	1-163-157-00	FILM	0.022MF	5%	50V
C18	1-163-157-00	FILM	0.022MF	5%	50V
C19	1-126-301-11	ELECT	1MF	20%	50V
C20	1-136-156-00	FILM	0.018MF	5%	50V
C21	1-136-156-00	FILM	0.018MF	5%	50V
C22	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C23	1-126-161-11	ELECT	2.2MF	20%	35V
C24	1-136-165-00	FILM	0.1MF	5%	50V
C25	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C26	1-163-157-00	FILM	0.022MF	5%	50V
C27	1-126-162-11	ELECT	3.3MF	20%	25V
C28	1-126-162-11	ELECT	3.3MF	20%	25V
C29	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C30	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C31	1-126-157-11	ELECT	10MF	20%	16V
C32	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C33	1-126-154-11	ELECT	47MF	20%	6.3V

Ref.No	Part No.	Description			
C34	1-124-229-00	ELECT	33MF	20%	10V
C35	1-124-589-11	ELECT	47MF	20%	16V
C36	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C37	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C38	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C101	1-130-467-00	MYLAR	470PF	5%	50V
C101	1-163-181-00	(POWER AMPLIFIER BOARD) ...CERAMIC CHIP	100PF	5%	50V
C102	1-130-467-00	MYLAR	470PF	5%	50V
C102	1-126-160-11	(POWER AMPLIFIER BOARD) ...ELECT	1MF	20%	50V
C103	1-126-157-11	(POWER AMPLIFIER BOARD) ...ELECT	10MF	20%	16V
C103	1-126-154-11	ELECT	47MF	20%	6.3V
C104	1-136-153-00	FILM	0.01MF	5%	50V
C104	1-163-185-00	(POWER AMPLIFIER BOARD) ...CERAMIC CHIP	150PF	5%	50V
C105	1-124-477-11	(POWER AMPLIFIER BOARD) ...ELECT	47MF	20%	16V
C105	1-126-288-11	ELECT	4.7MF	20%	16V
C106	1-124-126-00	(POWER AMPLIFIER BOARD) ...ELECT	47MF	20%	10V
C106	1-126-157-11	ELECT	10MF	20%	16V
C107	1-124-126-00	(POWER AMPLIFIER BOARD) ...ELECT	47MF	20%	10V
C107	1-126-301-11	ELECT	1MF	20%	50V
C108	1-126-176-11	(POWER AMPLIFIER BOARD) ...ELECT	220MF	20%	10V
C108	1-126-301-11	ELECT	1MF	20%	50V
C109	1-126-176-11	(POWER AMPLIFIER BOARD) ...ELECT	220MF	20%	10V
C109	1-126-157-11	ELECT	10MF	20%	16V
C110	1-136-742-11	FILM	0.1MF	5%	50V
C111	1-136-742-11	FILM	0.1MF	5%	50V
C112	1-126-153-11	ELECT	22MF	20%	6.3V
C113	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C114	1-126-153-11	ELECT	22MF	20%	6.3V
C115	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C116	1-126-157-11	ELECT	10MF	20%	16V
C117	1-126-157-11	ELECT	10MF	20%	16V
C125	1-124-584-00	ELECT	100MF	20%	10V
C128	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C129	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C131	1-163-117-00	CERAMIC CHIP	100PF	5%	50V

Ref.No	Part No.	Description			
C132	1-163-117-00	CERAMIC CHIP 100PF	5%		50V
C151	1-163-123-00	CERAMIC CHIP 180PF	5%		50V
C201	1-130-467-00	MYLAR 470PF	5%		50V
C201	1-163-181-00	(POWER AMPLIFIER BOARD) ...CERAMIC CHIP 100PF	5%		50V
C202	1-130-467-00	MYLAR 470PF	5%		50V
C202	1-126-160-11	(POWER AMPLIFIER BOARD) ...ELECT 1MF	20%		50V
C203	1-126-157-11	(POWER AMPLIFIER BOARD) ...ELECT 10MF	20%		16V
C203	1-126-154-11	ELECT 47MF	20%		6.3V
C204	1-136-153-00	FILM 0.01MF	5%		50V
C204	1-163-185-00	(POWER AMPLIFIER BOARD) ...CERAMIC CHIP 150PF	5%		50V
C205	1-124-477-11	(POWER AMPLIFIER BOARD) ...ELECT 47MF	20%		16V
C205	1-126-288-11	ELECT 4.7MF	20%		16V
C206	1-124-126-00	(POWER AMPLIFIER BOARD) ...ELECT 47MF	20%		10V
C206	1-126-157-11	ELECT 10MF	20%		16V
C207	1-124-126-00	(POWER AMPLIFIER BOARD) ...ELECT 47MF	20%		10V
C207	1-126-301-11	ELECT 1MF	20%		50V
C208	1-126-176-11	(POWER AMPLIFIER BOARD) ...ELECT 220MF	20%		10V
C208	1-126-301-11	ELECT 1MF	20%		50V
C209	1-126-176-11	(POWER AMPLIFIER BOARD) ...ELECT 220MF	20%		10V
C209	1-126-157-11	ELECT 10MF	20%		16V
C210	1-136-742-11	FILM 0.1MF	5%		50V
C211	1-136-742-11	FILM 0.1MF	5%		50V
C212	1-126-153-11	ELECT 22MF	20%		6.3V
C213	1-163-117-00	CERAMIC CHIP 100PF	5%		50V
C214	1-126-153-11	ELECT 22MF	20%		6.3V
C215	1-163-117-00	CERAMIC CHIP 100PF	5%		50V
C216	1-126-157-11	ELECT 10MF	20%		16V
C217	1-126-157-11	ELECT 10MF	20%		16V
C225	1-124-584-00	ELECT 100MF	20%		10V
C228	1-163-123-00	CERAMIC CHIP 180PF	5%		50V
C229	1-163-117-00	CERAMIC CHIP 100PF	5%		50V
C231	1-163-117-00	CERAMIC CHIP 100PF	5%		50V
C232	1-163-117-00	CERAMIC CHIP 100PF	5%		50V
C251	1-163-123-00	CERAMIC CHIP 180PF	5%		50V
C301	1-163-081-00	CERAMIC CHIP 0.22MF			25V
C301	1-163-181-00	(POWER AMPLIFIER BOARD) ...CERAMIC CHIP 100PF	5%		50V
C302	1-126-160-11	(POWER AMPLIFIER BOARD) ...ELECT 1MF	20%		50V
C302	1-124-360-00	ELECT 1000MF	20%		16V
C303	1-126-157-11	ELECT 10MF	20%		16V
C304	1-163-185-00	CERAMIC CHIP 150PF	5%		50V
C305	1-124-477-11	(POWER AMPLIFIER BOARD) ...ELECT 47MF	20%		16V
C305	1-163-081-00	CERAMIC CHIP 0.22MF			25V
C306	1-124-126-00	(POWER AMPLIFIER BOARD) ...ELECT 47MF	20%		10V
C306	1-164-232-11	CERAMIC CHIP 0.01MF	10%		50V

Ref.No	Part No.	Description			
C307	1-124-126-00	ELECT 47MF	20%		10V
C308	1-126-176-11	ELECT 220MF	20%		10V
C309	1-126-176-11	ELECT 220MF	20%		10V
C310	1-136-742-11	FILM 0.1MF	5%		50V
C311	1-136-742-11	FILM 0.1MF	5%		50V
C401	1-163-003-11	CERAMIC CHIP 330PF	10%		50V
C401	1-163-181-00	(POWER AMPLIFIER BOARD) ...CERAMIC CHIP 100PF	5%		50V
C402	1-126-160-11	(POWER AMPLIFIER BOARD) ...ELECT 1MF	20%		50V
C402	1-163-003-11	CERAMIC CHIP 330PF	10%		50V
C403	1-126-157-11	(POWER AMPLIFIER BOARD) ...ELECT 10MF	20%		16V
C403	1-163-003-11	CERAMIC CHIP 330PF	10%		50V
C404	1-163-003-11	CERAMIC CHIP 330PF	10%		50V
C404	1-163-185-00	(POWER AMPLIFIER BOARD) ...CERAMIC CHIP 150PF	5%		50V
C405	1-124-477-11	(POWER AMPLIFIER BOARD) ...ELECT 47MF	20%		16V
C405	1-163-003-11	CERAMIC CHIP 330PF	10%		50V
C406	1-124-126-00	ELECT 47MF	20%		10V
C407	1-124-126-00	ELECT 47MF	20%		10V
C408	1-126-176-11	(POWER AMPLIFIER BOARD) ...ELECT 220MF	20%		10V
C408	1-163-003-11	CERAMIC CHIP 330PF	10%		50V
C409	1-126-176-11	ELECT 220MF	20%		10V
C410	1-126-301-11	ELECT 1MF	20%		50V
C410	1-136-742-11	(POWER AMPLIFIER BOARD) ...FILM 0.1MF	5%		50V
C411	1-136-742-11	FILM 0.1MF	5%		50V
C501	1-126-160-11	ELECT 1MF	20%		50V
C502	1-126-301-11	ELECT 1MF	20%		50V
C502	1-163-205-00	(POWER AMPLIFIER BOARD) ...CERAMIC CHIP 0.001MF	5%		50V
C503	1-124-126-00	(POWER AMPLIFIER BOARD) ...ELECT 47MF	20%		10V
C503	1-124-229-00	ELECT 33MF	20%		10V
C504	1-163-081-00	CERAMIC CHIP 0.22MF			25V
C505	1-164-232-11	CERAMIC CHIP 0.01MF	10%		50V
C506	1-124-584-00	ELECT 100MF	20%		10V
C507	1-124-229-00	ELECT 33MF	20%		10V
C509	1-124-234-00	ELECT 22MF	20%		16V
C511	1-124-229-00	ELECT 33MF	20%		10V
C512	1-163-037-11	CERAMIC CHIP 0.022MF	10%		25V
C513	1-163-081-00	CERAMIC CHIP 0.22MF			25V
C514	1-163-038-00	CERAMIC CHIP 0.1MF			25V
C515	1-163-038-00	CERAMIC CHIP 0.1MF			25V
C516	1-163-037-11	CERAMIC CHIP 0.022MF	10%		25V
C519	1-163-105-00	CERAMIC CHIP 33PF	5%		50V
C520	1-163-105-00	CERAMIC CHIP 33PF	5%		50V
C521	1-163-038-00	CERAMIC CHIP 0.1MF			25V
C523	1-131-377-00	TANTALUM 10MF	10%		10V
C524	1-126-157-11	ELECT 10MF	20%		16V
C525	1-124-556-11	ELECT 2200MF	20%		16V
C529	1-126-301-11	ELECT 1MF	20%		50V

Ref.No	Part No.	Description		
C530	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C531	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C532	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C533	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C534	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C535	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C536	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C537	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C601	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C602	1-124-584-00	ELECT 100MF	20%	10V
C603	1-124-584-00	ELECT 100MF	20%	10V
C604	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C605	1-126-157-11	ELECT 10MF	20%	16V
C606	1-126-157-11	ELECT 10MF	20%	16V
C607	1-124-464-11	ELECT 0.22MF	20%	50V
C608	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C609	1-126-162-11	ELECT 3.3MF	20%	25V
C610	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C612	1-124-584-00	ELECT 100MF	20%	10V
C613	1-124-229-00	ELECT 33MF	20%	10V
C614	1-124-584-00	ELECT 100MF	20%	10V
C615	1-124-229-00	ELECT 33MF	20%	10V
C616	1-124-229-00	ELECT 33MF	20%	10V
C617	1-126-176-11	ELECT 220MF	20%	10V
C618	1-126-176-11	ELECT 220MF	20%	10V
C619	1-124-229-00	ELECT 33MF	20%	10V
C620	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C621	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C622	1-124-584-00	ELECT 100MF	20%	10V
C623	1-126-301-11	ELECT 1MF	20%	50V
C701	1-163-081-00	CERAMIC CHIP 0.22MF		25V
C702	1-162-637-11	CERAMIC CHIP 0.47MF		16V
C703	1-163-007-11	CERAMIC CHIP 680PF	10%	50V
C901	1-124-887-00	ELECT 3300MF	20%	16V
C902	1-124-887-00	ELECT 3300MF	20%	16V
C903	1-163-063-00	CERAMIC CHIP 0.022MF	10%	50V
C904	1-163-063-00	CERAMIC CHIP 0.022MF	10%	50V
C905	1-163-081-00	CERAMIC CHIP 0.22MF		25V
C906	1-126-101-11	ELECT 100MF	20%	16V
C907	1-126-157-11	ELECT 10MF	20%	16V
C908	1-126-101-11	ELECT 100MF	20%	16V
CNJ14	1-565-038-11	CONNECTOR, F.P.C 5P		
CNJ101	1-563-523-21	JACK, PIN 2P (FRONT L/R)		
CNJ201	1-563-523-21	JACK, PIN 2P (REAR L/R)		
CNP1	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P		
CNP11	*1-566-007-11	PIN, CONNECTOR (PC BOARD) 10P		
CNP12	*1-566-003-11	PIN, CONNECTOR (PC BOARD) 6P		
CNP13	*1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P		
CNP15	*1-566-002-11	PIN, CONNECTOR (PC BOARD) 5P		
CNP301	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P		
CNP401	*1-506-993-11	PIN, CONNECTOR (PC BOARD) 11P		
CNP501	1-564-320-00	PIN, CONNECTOR 2P		
CNP502	*1-566-011-11	PIN, CONNECTOR (PC BOARD) 14P		
CNP503	*1-506-984-31	PIN, CONNECTOR (PC BOARD) 2P		
CNP601	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P		
CNP604	*1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P		

Ref.No	Part No.	Description
CNP701	*1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P
CNP901	1-506-662-11	CONNECTOR
CNP902	1-566-467-11	CONNECTOR 9P
D1	8-719-976-31	DIODE 1SS332
D2	8-719-976-31	DIODE 1SS332
D3	8-719-977-03	DIODE DTZ5.6B
D4	8-719-977-24	DIODE DTZ9.1B
D5	8-719-976-94	DIODE DTZ4.7A
D101	8-719-976-91	DIODE DTZ4.3B
D201	8-719-976-91	DIODE DTZ4.3B
D301	8-719-976-31	DIODE 1SS332
D302	8-719-973-30	DIODE RLZ-J11A
D304	8-719-400-18	DIODE MA152WK
D305	8-719-976-31	DIODE 1SS332
D401	8-719-977-07	DIODE DTZ6.2B1
D402	8-719-977-07	DIODE DTZ6.2B
D403	8-719-977-07	DIODE DTZ6.2B
D404	8-719-977-07	DIODE DTZ6.2B
D405	8-719-977-07	DIODE DTZ6.2B
D406	8-719-977-07	DIODE DTZ6.2B
D408	8-719-977-03	DIODE DTZ5.6B
D410	8-719-977-15	DIODE DTZ7.5A
D501	8-719-970-07	DIODE DTZ6.2B
D502	8-719-104-34	DIODE 1S2836
D503	8-719-976-31	DIODE 1SS332
D504	8-719-977-07	DIODE DTZ6.2B
D505	8-719-976-99	DIODE DTZ5.1B
D506	8-719-976-31	DIODE 1SS332
D507	8-719-977-23	DIODE DTZ9.1A
D508	8-719-977-24	DIODE DTZ9.1B
D509	8-719-977-31	DIODE DTZ11A
D510	8-719-400-18	DIODE MA152WK
D512	8-719-976-31	DIODE 1SS332
D513	8-719-976-31	DIODE 1SS332
D514	8-719-976-31	DIODE 1SS332
D515	8-719-976-31	DIODE 1SS332
D516	8-719-976-31	DIODE 1SS332
D517	8-719-976-31	DIODE 1SS332
D518	8-719-976-31	DIODE 1SS332
D519	8-719-976-94	DIODE DTZ4.7A
D520	8-719-945-59	DIODE DSA3A4
D522	8-719-200-02	DIODE 10E2
D601	8-719-972-42	DIODE RLZ-J4.7A
D603	8-719-976-31	DIODE 1SS332
D701	8-719-975-27	DIODE CL-55Y/PG-D
D702	8-719-975-27	DIODE CL-55Y/PG-D
D703	8-719-975-27	DIODE CL-55Y/PG-D
D704	8-719-975-27	DIODE CL-55Y/PG-D
D705	8-719-975-27	DIODE CL-55Y/PG-D
D706	8-719-975-27	DIODE CL-55Y/PG-D
D707	8-719-975-27	DIODE CL-55Y/PG-D
D708	8-719-975-27	DIODE CL-55Y/PG-D
D709	8-719-975-27	DIODE CL-55Y/PG-D
D710	8-719-975-27	DIODE CL-55Y/PG-D
D711	8-719-975-27	DIODE CL-55Y/PG-D
D712	8-719-975-27	DIODE CL-55Y/PG-D
D713	8-719-975-27	DIODE CL-55Y/PG-D

Ref.No	Part No.	Description
D714	8-719-975-27	DIODE CL-55Y/PG-D
D715	8-719-975-27	DIODE CL-55Y/PG-D
D716	8-719-975-27	DIODE CL-55Y/PG-D
D717	8-719-975-27	DIODE CL-55Y/PG-D
D718	8-719-975-27	DIODE CL-55Y/PG-D
D719	8-719-975-27	DIODE CL-55Y/PG-D
D720	8-719-975-27	DIODE CL-55Y/PG-D
D721	8-719-975-27	DIODE CL-55Y/PG-D
D722	8-719-975-27	DIODE CL-55Y/PG-D
D723	8-719-975-27	DIODE CL-55Y/PG-D
D724	8-719-976-31	DIODE 1SS332
D725	8-719-976-99	DIODE DTZ5.1B
D901	8-719-945-59	DIODE DSA3A4
D902	8-719-911-19	DIODE 1SS119
D903	8-719-911-19	DIODE 1SS119
D904	8-719-110-12	DIODE RD9.1ES-B1
D905	8-719-110-12	DIODE RD9.1ES-B1
D906	8-719-976-94	DIODE DTZ4.7A
FE1	1-465-141-11	TUNER UNIT (FM/MW/LW)
HP901	1-543-567-11	HEAD, MAGNETIC (PLAYBACK)
IC1	1-808-515-11	IC NMX3S900
IC2	8-759-821-43	IC LC7218M
IC101	8-759-147-25	(POWER AMPLIFIER BOARD)...IC UPC2500H
IC101	8-759-988-33	IC BA3430FS
IC102	8-759-631-00	IC M5280FP
IC103	8-759-932-64	IC BU4052BF
IC104	1-808-774-11	IC MODULE, DOLBY B/C
IC105	8-759-995-12	IC EV1200
IC106	8-759-988-36	IC BA14741F
IC201	8-759-147-25	IC UPC2500H
IC301	8-759-147-25	(POWER AMPLIFIER BOARD)...IC UPC2500H
IC301	8-759-631-01	IC M54644BL
IC401	8-759-147-25	IC UPC2500H
IC501	8-759-150-68	IC UPD75516GF-133-3B9
IC501	8-759-981-95	(POWER AMPLIFIER BOARD)...IC RC4558S
IC502	8-759-981-95	(POWER AMPLIFIER BOARD)...IC RC4558S
IC502	8-759-932-86	IC BU4081BF
IC503	8-759-981-95	IC RC4558S
IC701	8-759-821-44	IC LC7582
IC702	8-749-900-36	IC BX-1393
JR4	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR5	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR101	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR102	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR103	1-216-295-00	METAL GLAZE 0 5% 1/10W
JR103	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR104	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR105	1-216-295-00	METAL GLAZE 0 5% 1/10W
JR105	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR106	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR107	1-216-296-00	METAL GLAZE 0 5% 1/8W
L1	1-410-513-11	INDUCTOR 22UH
L501	1-410-513-11	INDUCTOR 22UH
LCD701	1-808-773-11	DISPLAY PANEL, LIQUID CRYSTAL

Ref.No	Part No.	Description
M901	X-3344-136-1	MOTOR SUB ASSY, CAPSTAN 910
M902	A-3239-956-B	MOTOR SUB ASSY, L
PH11	8-719-939-11	PHOTO TRANSISTPR GP2S09-B
PH12	8-719-939-11	PHOTO TRANSISTPR GP2S09-B
PL701	1-518-648-11	LAMP, PILOT
PL702	1-518-648-11	LAMP, PILOT
PL703	1-518-646-11	LAMP, PILOT
PL704	1-518-646-11	LAMP, PILOT
PM901	1-454-461-11	SOLENOID, PLUNGER
Q1	8-729-901-78	TRANSISTOR 2SC2412K
Q2	8-729-900-53	TRANSISTOR DTC114EK
Q3	8-729-901-78	TRANSISTOR 2SC2412K
Q4	8-729-901-78	TRANSISTOR 2SC2412K
Q5	8-729-901-78	TRANSISTOR 2SC2412K
Q6	8-729-901-78	TRANSISTOR 2SC2412K
Q7	8-729-106-68	TRANSISTOR 2SD1615A-GP
Q8	8-729-920-21	TRANSISTOR DTC314TK-H04
Q9	8-729-106-60	TRANSISTOR 2SB1115A
Q10	8-729-106-60	TRANSISTOR 2SB1115A
Q11	8-729-901-04	TRANSISTOR DTA114EK
Q12	8-729-901-78	TRANSISTOR 2SC2412K
Q101	8-729-920-21	TRANSISTOR DTC314TK-H04
Q102	8-729-920-21	TRANSISTOR DTC314TK-H04
Q201	8-729-920-21	TRANSISTOR DTC314TK-H04
Q202	8-729-920-21	TRANSISTOR DTC314TK-H04
Q301	8-729-106-60	TRANSISTOR 2SB1115A
Q302	8-729-900-53	TRANSISTOR DTC114EK
Q303	8-729-901-78	TRANSISTOR 2SC2412K
Q304	8-729-106-68	TRANSISTOR 2SD1615A-GP
Q305	8-729-901-04	TRANSISTOR DTA114EK
Q306	8-729-900-53	TRANSISTOR DTC114EK
Q401	8-729-901-01	TRANSISTOR DTC144EK
Q506	8-729-901-78	TRANSISTOR 2SC2412K-R
Q507	8-729-901-01	TRANSISTOR DTC144EK
Q508	8-729-901-78	TRANSISTOR 2SC2412K
Q509	8-729-901-78	TRANSISTOR 2SC2412K
Q510	8-729-921-48	TRANSISTOR 2SD1760F5-Q
Q514	8-729-106-60	TRANSISTOR 2SB1115A
Q515	8-729-900-53	TRANSISTOR DTC114EK
Q516	8-729-216-22	TRANSISTOR 2SA1162
Q517	8-729-922-47	TRANSISTOR 2SB1184F5-R
Q518	8-729-900-53	TRANSISTOR DTC114EK
Q519	8-729-901-78	TRANSISTOR 2SC2412K
Q520	8-729-901-78	TRANSISTOR 2SC2412K
Q521	8-729-216-22	TRANSISTOR 2SA1162
Q522	8-729-920-21	TRANSISTOR DTC314TK-H04
Q525	8-729-900-53	TRANSISTOR DTC114EK
Q526	8-729-900-53	TRANSISTOR DTC114EK
Q527	8-729-921-48	TRANSISTOR 2SD1760F5-Q
Q528	8-729-901-04	TRANSISTOR DTA114EK
Q529	8-729-900-53	TRANSISTOR DTC114EK
Q530	8-729-921-48	TRANSISTOR 2SD1760F5-Q
Q531	8-729-901-88	TRANSISTOR 2SC2411K-CR
Q532	8-729-900-53	TRANSISTOR DTC114EK
Q534	8-729-901-01	TRANSISTOR DTC144EK
Q701	8-729-904-66	TRANSISTOR DTD113EK
Q702	8-729-904-66	TRANSISTOR DTD113EK

Ref.No	Part No.	Description
Q703	8-729-904-66	TRANSISTOR DTD113EK
Q704	8-729-904-66	TRANSISTOR DTD113EK
Q901	8-729-100-66	TRANSISTOR 2SC1623
Q902	8-729-901-04	TRANSISTOR DTA114EK
Q903	8-729-100-66	TRANSISTOR 2SC1623
Q904	8-729-216-22	TRANSISTOR 2SA1162
R1	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R2	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R3	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R4	1-216-080-00	METAL GLAZE 20K 5% 1/10W
R5	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R6	1-216-001-00	METAL GLAZE 10 5% 1/10W
R7	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R8	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R9	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W
R10	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R11	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R12	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R13	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R14	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R15	1-216-092-00	METAL GLAZE 62K 5% 1/10W
R16	1-216-092-00	METAL GLAZE 62K 5% 1/10W
R17	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R18	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R20	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R21	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R22	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R23	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R24	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R25	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W
R26	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R27	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R28	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R29	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W
R30	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R31	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R32	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W
R33	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W
R34	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R35	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R101	1-216-033-00	METAL GLAZE 220 5% 1/10W
R101	1-216-222-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 10K 5% 1/8W
R102	1-216-109-00	METAL GLAZE 330K 5% 1/10W
R103	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R103	1-216-278-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 2.2M 5% 1/8W
R104	1-215-433-00	(POWER AMPLIFIER BOARD) ...METAL 3.3K 1% 1/6W
R104	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R105	1-215-421-00	(POWER AMPLIFIER BOARD) ...METAL 1K 1% 1/6W
R105	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R106	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R106	1-216-216-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 5.6K 5% 1/8W
R107	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W
R107	1-216-192-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 560 5% 1/8W
R108	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R108	1-216-158-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 22 5% 1/8W
R109	1-216-158-00	METAL GLAZE 22 5% 1/8W
R110	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R111	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R112	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R113	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R113	1-217-806-11	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1 5% 1/8W
R114	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R114	1-217-806-11	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1 5% 1/8W
R115	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R116	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R117	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R118	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R119	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R128	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R131	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R132	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R151	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R152	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R201	1-216-033-00	METAL GLAZE 220 5% 1/10W
R201	1-216-222-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 10K 5% 1/8W
R202	1-216-109-00	METAL GLAZE 330K 5% 1/10W
R203	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R203	1-216-278-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 2.2M 5% 1/8W
R204	1-215-433-00	(POWER AMPLIFIER BOARD) ...METAL 3.3K 1% 1/6W
R204	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R205	1-215-421-00	(POWER AMPLIFIER BOARD) ...METAL 1K 1% 1/6W
R205	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R206	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R206	1-216-216-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 5.6K 5% 1/8W
R207	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W
R207	1-216-192-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 560 5% 1/8W
R208	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R208	1-216-158-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 22 5% 1/8W
R209	1-216-158-00	METAL GLAZE 22 5% 1/8W
R210	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R211	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R212	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R213	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R213	1-217-806-11	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1 5% 1/8W
R214	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R214	1-217-806-11	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1 5% 1/8W

Ref.No	Part No.	Description
R215	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R216	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R217	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R218	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R219	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R228	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R231	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R232	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R251	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R252	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R301	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R301	1-216-222-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 10K 5% 1/8W
R302	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R303	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R303	1-216-278-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 2.2M 5% 1/8W
R304	1-215-433-00	(POWER AMPLIFIER BOARD) ...METAL 3.3K 1% 1/6W
R304	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R305	1-215-421-00	(POWER AMPLIFIER BOARD) ...METAL 1K 1% 1/6W
R305	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R306	1-216-146-00	METAL GLAZE 6.8 5% 1/8W
R306	1-216-216-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 5.6K 5% 1/8W
R307	1-216-146-00	METAL GLAZE 6.8 5% 1/8W
R307	1-216-192-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 560 5% 1/8W
R308	1-216-146-00	METAL GLAZE 6.8 5% 1/8W
R308	1-216-158-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 22 5% 1/8W
R309	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R309	1-216-158-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 22 5% 1/8W
R310	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R310	1-216-198-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1K 5% 1/8W
R311	1-216-134-00	METAL GLAZE 2.2 5% 1/8W
R311	1-216-198-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1K 5% 1/8W
R312	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R312	1-216-198-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1K 5% 1/8W
R313	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R313	1-217-806-11	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1 5% 1/8W
R314	1-216-194-00	METAL GLAZE 680 5% 1/8W
R314	1-217-806-11	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1 5% 1/8W
R315	1-216-017-00	METAL GLAZE 47 5% 1/10W
R316	1-216-194-00	METAL GLAZE 680 5% 1/8W
R317	1-216-194-00	METAL GLAZE 680 5% 1/8W
R318	1-216-194-00	METAL GLAZE 680 5% 1/8W
R319	1-216-194-00	METAL GLAZE 680 5% 1/8W
R320	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R321	1-216-041-00	METAL GLAZE 470 5% 1/10W

Ref.No	Part No.	Description
R322	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R323	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R324	1-216-194-00	METAL GLAZE 680 5% 1/8W
R401	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R401	1-216-222-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 10K 5% 1/8W
R402	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R403	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R403	1-216-278-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 2.2M 5% 1/8W
R404	1-215-433-00	(POWER AMPLIFIER BOARD) ...METAL 3.3K 1% 1/6W
R404	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R405	1-215-421-00	(POWER AMPLIFIER BOARD) ...METAL 1K 1% 1/6W
R405	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R406	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R406	1-216-216-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 5.6K 5% 1/8W
R407	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R407	1-216-192-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 560 5% 1/8W
R408	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R408	1-216-158-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 22 5% 1/8W
R409	1-216-158-00	METAL GLAZE 22 5% 1/8W
R410	1-216-198-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1K 5% 1/8W
R410	1-216-207-00	METAL GLAZE 2.4K 5% 1/8W
R411	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R411	1-216-198-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1K 5% 1/8W
R412	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R412	1-216-198-00	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1K 5% 1/8W
R413	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R413	1-217-806-11	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1 5% 1/8W
R414	1-216-220-00	METAL GLAZE 8.2K 5% 1/8W
R414	1-217-806-11	(POWER AMPLIFIER BOARD) ...METAL GLAZE 1 5% 1/8W
R502	1-216-278-00	METAL GLAZE 2.2M 5% 1/8W
R503	1-215-421-00	METAL 1K 1% 1/6W
R504	1-215-433-00	METAL 3.3K 1% 1/6W
R505	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R506	1-216-238-00	METAL GLAZE 47K 5% 1/8W
R507	1-216-238-00	METAL GLAZE 47K 5% 1/8W
R514	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R515	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R516	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R517	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R518	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R519	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R520	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R521	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R522	1-216-097-00	METAL GLAZE 100K 5% 1/10W

Ref.No	Part No.	Description			
R523	1-216-041-00	METAL GLAZE	470	5%	1/10W
R527	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R528	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R529	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R530	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R531	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R532	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R533	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R534	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R535	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R536	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R538	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R540	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R541	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R542	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R545	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R546	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R547	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R548	1-216-041-00	METAL GLAZE	470	5%	1/10W
R549	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R550	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R551	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R552	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R553	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R554	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R555	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R556	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R557	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R558	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R559	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R560	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R561	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R562	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R563	1-216-033-00	METAL GLAZE	220	5%	1/10W
R564	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R565	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R566	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R567	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R568	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R569	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R570	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R571	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R572	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R578	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R579	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R580	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R581	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R582	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R583	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R584	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R585	1-216-037-00	METAL GLAZE	330	5%	1/10W
R586	1-216-041-00	METAL GLAZE	470	5%	1/10W
R587	1-216-041-00	METAL GLAZE	470	5%	1/10W
R601	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R602	1-216-025-00	METAL GLAZE	100	5%	1/10W
R603	1-216-021-00	METAL GLAZE	68	5%	1/10W
R604	1-216-001-00	METAL GLAZE	10	5%	1/10W

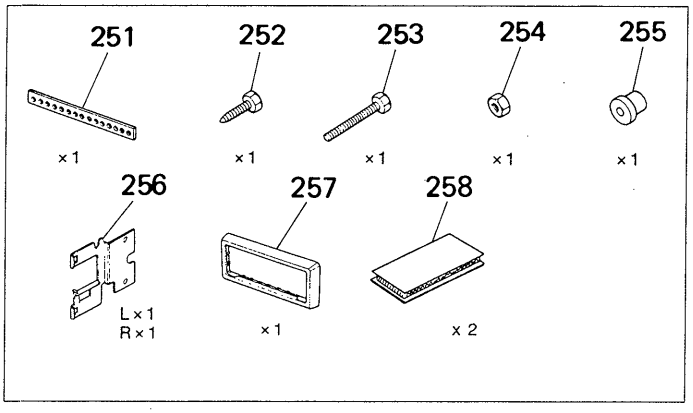
Ref.No	Part No.	Description			
R605	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R606	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R607	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R608	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R609	1-216-041-00	METAL GLAZE	470	5%	1/10W
R610	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R611	1-216-001-00	METAL GLAZE	10	5%	1/10W
R612	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R613	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R614	1-216-001-00	METAL GLAZE	10	5%	1/10W
R615	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R616	1-216-025-00	METAL GLAZE	100	5%	1/10W
R617	1-216-001-00	METAL GLAZE	10	5%	1/10W
R623	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R701	1-216-034-00	METAL GLAZE	240	5%	1/10W
R702	1-216-034-00	METAL GLAZE	240	5%	1/10W
R703	1-216-039-00	METAL GLAZE	390	5%	1/10W
R704	1-216-039-00	METAL GLAZE	390	5%	1/10W
R705	1-216-039-00	METAL GLAZE	390	5%	1/10W
R706	1-216-039-00	METAL GLAZE	390	5%	1/10W
R707	1-216-036-00	METAL GLAZE	300	5%	1/10W
R708	1-216-036-00	METAL GLAZE	300	5%	1/10W
R709	1-216-036-00	METAL GLAZE	300	5%	1/10W
R710	1-216-036-00	METAL GLAZE	300	5%	1/10W
R711	1-216-030-00	METAL GLAZE	160	5%	1/10W
R712	1-216-030-00	METAL GLAZE	160	5%	1/10W
R713	1-216-030-00	METAL GLAZE	160	5%	1/10W
R714	1-216-030-00	METAL GLAZE	160	5%	1/10W
R715	1-216-030-00	METAL GLAZE	160	5%	1/10W
R716	1-216-030-00	METAL GLAZE	160	5%	1/10W
R717	1-216-030-00	METAL GLAZE	160	5%	1/10W
R718	1-216-030-00	METAL GLAZE	160	5%	1/10W
R721	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R722	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R723	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R724	1-216-090-00	METAL GLAZE	51K	5%	1/10W
R904	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W
R905	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W
R906	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R907	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W
R908	1-216-258-00	METAL GLAZE	330K	5%	1/8W
R909	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R910	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W
RV1	1-228-994-00	RES, ADJ, CARBON 10K (FM STEREO SEPARATION)			
RV2	1-228-997-00	RES, ADJ, CARBON 100K (FM ARRIER LEAKAGE)			
RV101	1-237-606-11	RES, ADJ, METAL GRAZE 22K (DOLBY NR LEVEL FWD...L Ch)			
RV102	1-237-606-11	RES, ADJ, METAL GRAZE 22K (DOLBY NR LEVEL REV...L Ch)			
RV201	1-237-606-11	RES, ADJ, METAL GRAZE 22K (DOLBY NR LEVEL FWD...R Ch)			
RV202	1-237-606-11	RES, ADJ, METAL GRAZE 22K (DOLBY NR LEVEL REV...R Ch)			

Ref.No	Part No.	Description
S10	A-3239-952-A	CONTACT ASSY
S11	1-570-953-11	SWITCH, PUSH (1 KEY)
S12	1-570-953-11	SWITCH, PUSH (1 KEY)
S501	1-553-510-00	SWITCH, SLIDE (ACC)
S502	1-553-510-00	SWITCH, SLIDE (9K/10K)
S700	1-554-813-41	SWITCH, KEY BOARD (TAPE)
S701	1-554-813-41	SWITCH, KEY BOARD (SEEK +/AMS)
S702	1-554-813-41	SWITCH, KEY BOARD (1/INTRO)
S703	1-554-813-41	SWITCH, KEY BOARD (5/SHUF)
S704	1-554-813-41	SWITCH, KEY BOARD (SELECT)
S705	1-554-813-41	SWITCH, KEY BOARD (M.SCAN/A.MEM)
S710	1-554-813-41	SWITCH, KEY BOARD (FM/AM)
S711	1-554-813-41	SWITCH, KEY BOARD (SEEK -/AMS)
S712	1-554-813-41	SWITCH, KEY BOARD (2/REPEAT)
S713	1-554-813-41	SWITCH, KEY BOARD (6/ATA)
S714	1-571-938-21	SWITCH, KEY BOARD (OFF)
S715	1-571-938-21	SWITCH, KEY BOARD (METAL/LOUD)
S720	1-554-813-41	SWITCH, KEY BOARD (CD)
S721	1-554-813-41	SWITCH, KEY BOARD (MANU +/DISC)
S722	1-554-813-41	SWITCH, KEY BOARD (3/BL.SKIP)
S723	1-554-813-41	SWITCH, KEY BOARD (+ LEVEL)
S724	1-554-813-41	SWITCH, KEY BOARD (MUTE)
S725	1-571-938-21	SWITCH, KEY BOARD (SENS/DOLBY)
S730	1-554-813-41	SWITCH, KEY BOARD (EJECT)
S731	1-554-813-41	SWITCH, KEY BOARD (MANU -/DISC)
S732	1-554-813-41	SWITCH, KEY BOARD (4/D.SCAN)
S733	1-554-813-41	SWITCH, KEY BOARD (- LEVEL)
S735	1-571-938-21	SWITCH, KEY BOARD (DSPL)
S740	1-554-813-41	SWITCH, KEY BOARD (RESET)
S901	1-570-771-11	SWITCH (POWER)
X1	1-567-250-11	OSCILLATOR, CERAMIC 18.95kHz
X2	1-567-848-11	VIBRATOR, CRYSTAL 7.2MHz
X501	1-567-821-21	VIBRATOR, CRYSTAL 4.194304MHZ

ACCESSORY & PACKING MATERIAL

1-465-341-11	REMOTE COMMANDER
*1-558-626-11	CORD, CONNECTION
1-559-200-21	CORD (WITH CONNECTOR)
1-575-701-11	CORD (WITH CONNECTOR)
1-575-804-21	CORD (WITH CONNECTOR)
3-336-617-01	BAG, PROTECTION
*3-349-488-01	CUSHION (UPPER)
*3-349-489-01	CUSHION (LOWER)
*3-357-011-01	TAPE (A), MAGIC
*3-357-067-01	CUSHION
*3-362-539-01	LABEL , MODEL NUMBER (AE)
*3-363-030-01	INDIVIDUAL CARTON
3-566-347-00	COVER (A), CONNECTOR
3-752-041-51	MANUAL, INSTRUCTION
3-752-042-51	MANUAL, INSTRUCTION
7-682-652-09	SCREW +PSW 3X16
*X-3344-509-3	BRACKET ASSY

MOUNTING HARDWARE



251	3-310-655-01	SUPPORT (ND), FITTING
252	3-302-126-01	SCREW, TAPPING (DIA. 5X20)
253	7-682-583-04	SCREW +P 5X40
254	7-684-025-04	N 5, TYPE 2
255	3-349-410-01	BUSHING
256	*3-349-456-01	BRACKET (FIX, LEFT)
	*3-349-457-01	BRACKET (FIX, RIGHT)
257	*3-349-458-01	FRAME, ORNAMENTAL
258	2-201-810-00	TAPE (C), MAGIC
	2-201-810-00	TAPE (D), MAGIC

9-956-022-11

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